

2015-16

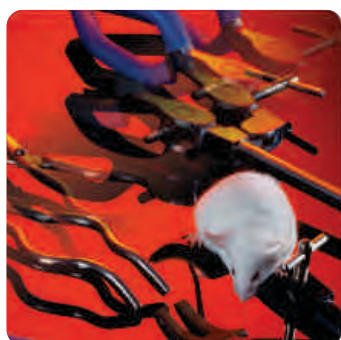


A Glass Apart

## General Catalogue



**YOUR ONE  FOR  
ASTM / ISO STANDARD GLASSWARE**







We are pleased to introduce our 2015 edition of GLASSWARE catalogue.

This new catalogue consists of not only glass products but also a lot of allied line of items, which are added to this catalogue from our catalogue of GLASSCO LABORATORY INSTRUMENTS, which is now merged into this company, and thus a new catalogue with more than 3100 products is covered in this new catalogue. This catalogue covers vast range of products that includes interchangeable glassware, volumetric glassware, filtration glassware, general glassware, plastic ware, metal ware, rubber ware, ceramic ware and a lot of accessories used in laboratory.

We have also introduced a lot of new products in glass with ASTM STANDARDS and are the only company in the world now offering DIN EN ISO and ASTM standard products from one production facility.

Producing high quality of lab ware according to international standard and excellent customer service has helped us to achieve the brand recognition worldwide in more than 75 countries. We are committed in providing high quality labware products to our customers through strict quality control and timely deliveries.

In the last 18 months we have added more than 7500 square meter of warehousing facility which will help us to deliver the goods worldwide with the shortest lead times. With constant increasing demand we have also invested in new automatic machines for flasks making and joint making which has helped to increase our production capacity more new automation is in the pipeline for 2015 .

Being close to our customers enables us to understand there needs and deliver the right solution in the shortest possible time. In case you don't find the information that you need you can contact us and we will do our best to help you.

# Glassco Production Plant

## Glassco History

Glassco was established in the year 1969 as a volumetric glassware producing company, till 1996 was working mainly in domestic market .

In the year 1996 Glassco started exporting from its domestic plant with the rapid success achieved in export market . It was time to set up a separate export oriented unit ( EOU) which established in the year 2000 employing nearly 70 people at that time in an area of 2000 square meter . In the year 2006 Glassco moved into a new location as it was required since the growth in the export business was very rapid. We are now working with more than 400 people in the glassware plant and covering nearly 25000 square meter area .





## GLASSCO LABORATORY EQUIPMENTS

Having a history of more than 45 years in the field of manufacturing lab glass. Glassco is the biggest exporter of scientific lab ware from India, shipping more than 400 containers of glassware every year mainly Interchangeable, Volumetric, Filtration and General lab ware manufactured in ISO / ASTM Standards. Along with glassware a lot of allied line of products and accessories that are used in laboratory application such as Plastic ware, Rubber ware, Metal ware, Liquid Handling Instruments, Hot Plate & Stirrers.



Interchange Glassware



Volumetric Glassware



Filtration Glassware



General Glassware

## ALLIED PRODUCTS & ACCESSORIES



Plastic Ware



Metal Ware



Rubber Ware



Misc.



Hot Plate



Micropipette

## GLASSCO LABORATORY EQUIPMENTS PLANT

Glassco employees more than 85 glassblowers working on Automatic & Semi Automatic machine, making products of different shape & sizes. We have a complete line of production for making Test Tubes, Beakers, Flasks, Joints and Flanges. More than 20 glassblowers are involved in making high precision glass like, Condensers, Adapters and Assemblies various kind.



CNC Machine



Automatic Cylinder Forming Machine



Automatic Joint Forming Machine



Automatic Flask Forming Machine



## Infrastructure

### RAW MATERIAL

Glassco makes all its products from tubing of ASTM E- 438 TYPE I, CLASS A BORO 3.3 GLASS.

Glassco imports 400 MT of glass tubes per annum. Glassco normally keeps a stock for 3 months at any point of time which amounts to more than 80 tonnes of glass tubing.



Raw Material

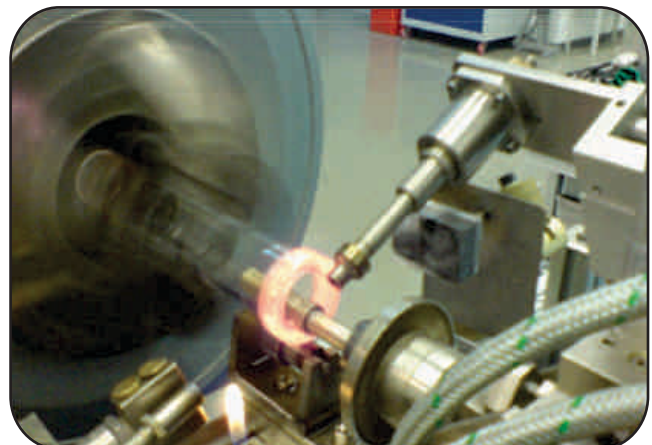
### COMPUTERISED GLASS FORMING MACHINE

A computer controlled joint making machine installed at the plant gives added leverage to produce precise dimensions of sockets, cones, rims and flanges.

An automatic joint making machine ensures consistent quality of joints. All the products travel through conveyor ovens for annealing / de-stressing that runs round the clock.



Furnace



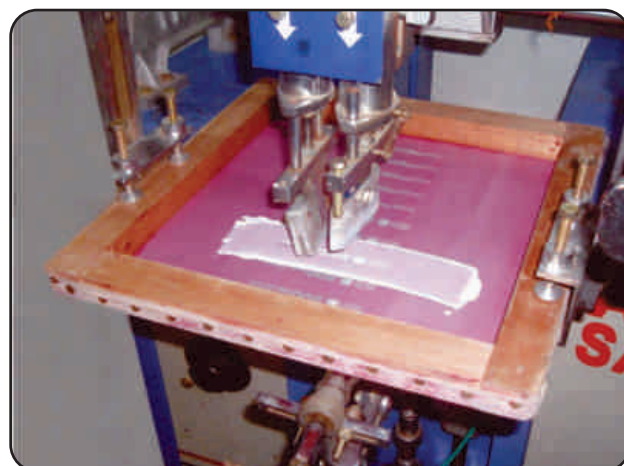
CNC Machine



## Infrastructure

### PRINTING MACHINE

For the printing process Glassco employs an automatic Printing Machine. Due to this, it is possible to handle huge volumes of glassware for printing with consistent quality.



### ULTRASONIC WASHING MACHINE

For the washing of glassware after grinding, Glassco uses state-of-the-art ultrasonic washing machine which is developed and designed in-house and can wash upto 5,000 pieces in 8 hours.

For running the complete manufacturing facility, a custom-made software is used.

Glassco intends to use RFID technology in coming future.



Grinding Machine



Hand Polishing being done



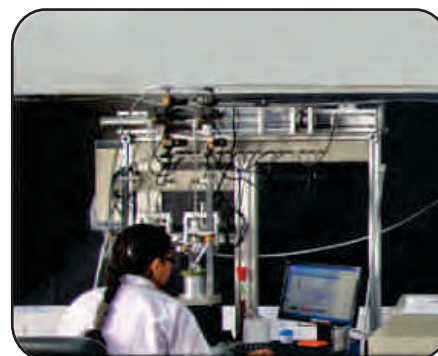
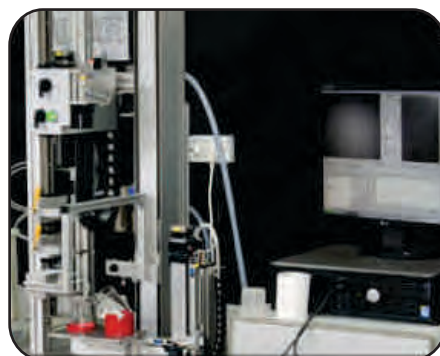
Washing Machine





## CALIBRATION LABORATORY

Glassco has automatic facility for calibrating volumetric flasks and cylinders, Glassco uses machines imported from Germany. These machines help to get an accuracy of 0.003%, so every product that Glassco make is within A-Class tolerance. For the burettes and pipettes Glassco use an automatic QUALITY CONTROL CENTER FOR verification of the calibration results.



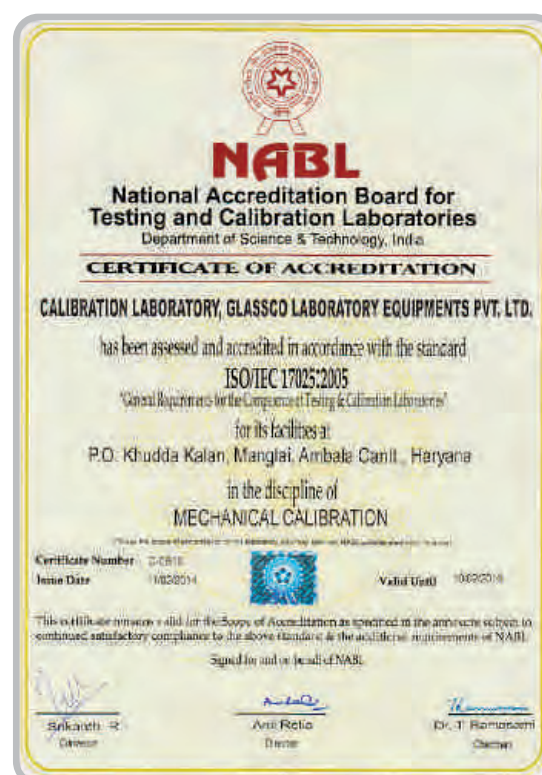
Glassco's Calibration Laboratory has undertaken accreditation for its system for calibration and testing as per ISO 17025:2005.

Glassco's Calibration Laboratory is NABL approved. NABL has a MRA under the Asia Pacific Laboratory Accreditation Cooperation (APLAC) and the International Laboratory Accreditation Cooperation (ILAC), which means the calibration provided to customers for volumetric ware is acceptable in calibration laboratories worldwide.

Results of calibration are guaranteed for precision as per the DIN, ISO, USP & ASTM standards.

The calibrations performed by Glassco calibration laboratory are essential done under ISO 17025:2005.

Please visit our website [www.glasscolabs.com](http://www.glasscolabs.com) to see list of accreditation bodies.





## Quality

### QUALITY POLICY

Glassco shall endeavor to produce and supply laboratory products at attractive pricings that meet or exceed customer's expectations, with stress on timely deliveries.

This shall be achieved by obtaining customer feedbacks of our performance and making relevant changes in our management system for continual improvement.

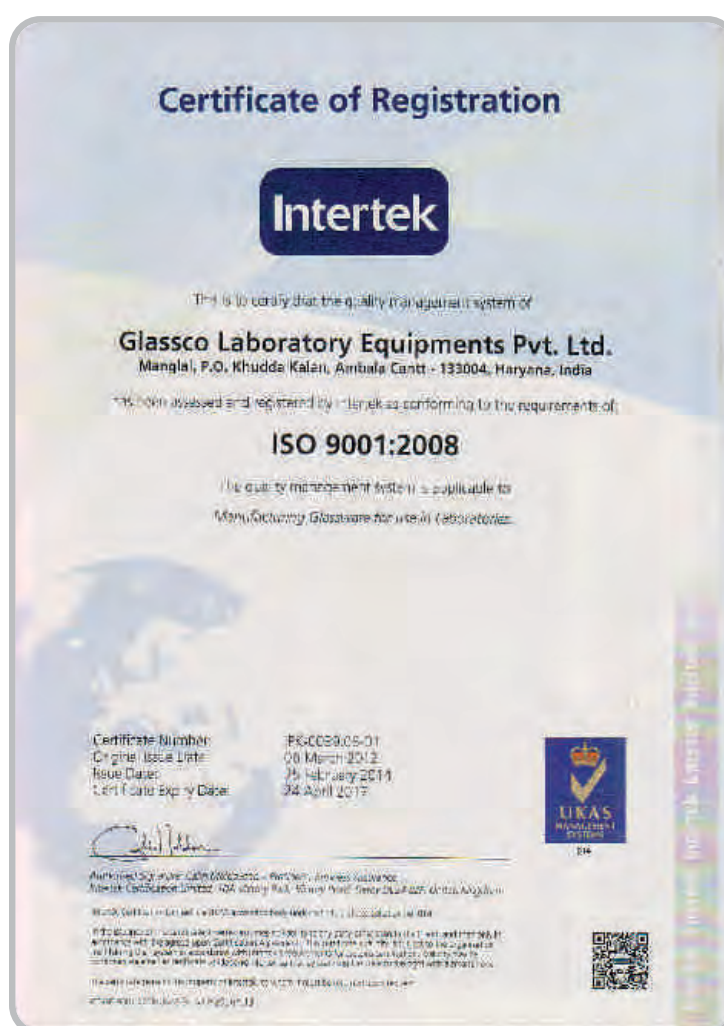
### QUALITY MANAGEMENT SYSTEM

Glassco believes in delivering world class quality to all its clients globally and is recognized in International market for a quality brand.

The Quality Management system at Glassco is ISO 9001:2008 certified by Moody ICL; accredited to UKAS.

Glassco maintains Quality System manual for all its business processes and at all manufacturing and post – manufacturing levels, quality system is strictly adhered to.

People supervising work affecting quality at Glassco, are trained internal auditors and carry out internal audits in routine practice





## Quality

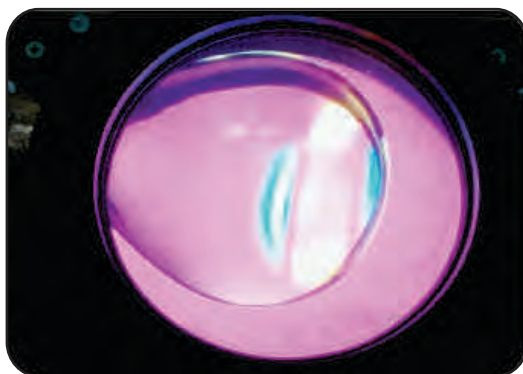
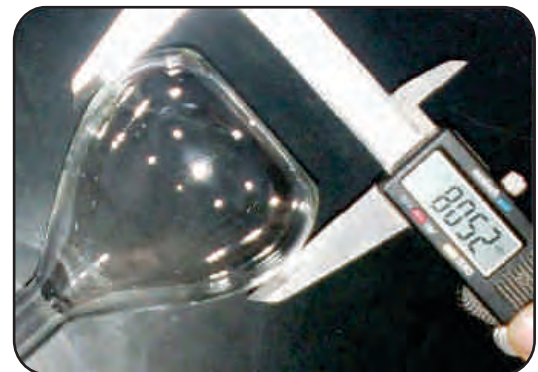
### 7 Steps to Quality

#### For GLASSCO, Quality Assurance has the foundation in Quality planning in all function

- Quality plan for communication with you
- Quality in translating your requirements to our objectives
- Quality of raw material, not excluding those of semi finished and in process
- Quality in plant setup, including, trained manpower, latest machinery & technology
- Quality in calibration of volumetric glassware
- Quality in services
- Analysis of data of all processes

#### Dimensional Checks

Glassco carries out dimensional check with gages and calipers for all the material produced in the company, while in process and also before further processing



#### Glass stress-free checks

Glassco has four on line annealing furnaces where all the products are annealed to remove manufacturing stress from glass to ensure that product has long use life. Glassco has four stress viewers installed at several locations for this purpose.

#### Wall strength, thickness checks

Glassco has two very sophisticated thickness testers for viewing the thickness of glass in the glassware manufactured by blowing. This helps to ensure that the thickness is always over the norms in the standards like ASTM/DIN/ISO. This ensures that product has long use life and is safe to use.





## Quality

### Optical Clarity Checks

Glassco verifies the optical clarity of all the products 100% of them twice...! Once when the product is first produced and secondly before the product is to be packed to ship.



### Fit testing for joints

The taper of the male(cones) and female(sockets) are verified by gages and taper test tools before further processing, this ensures that the joints are secured of leaks.

### Vacuum testing of mating joints

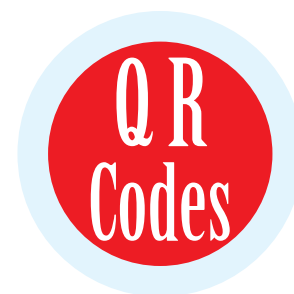
Mating joints are tested under a vacuum to verify that the taper are even and no leaks exist.



### Print color adhesion test

All the prints on the glass are verified for colour adhesion by subjecting them to acid boiling, scratch and tape peel off test.





Now ...

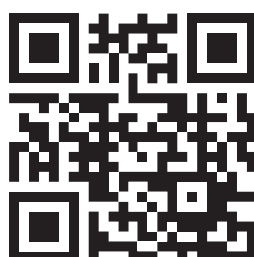
Product Certifications including

## Calibration and Conformance

available at your fingertips !

## QR CODES !

Now On Cartons Of All Glassco Wares!



Scan For Certificates




Use your **Smartphone** to scan the QR Code on the box labels ...

Just select the **Certificate** you wish to see...

**Conformity...**

**Calibration ...**  
(Individual or Batch)



| CERTIFICATE OF CONFORMITY   |   |             |            |
|---|---|-------------|------------|
| Issuers Name / Producer :   | GLASSCO LABORATORY EQUIPMENTS PVT. LTD.   |             |            |
| Issuers Address / Producer :  | Mangla, P.O. Khudsa Kalan, Ambala Cantt-130011<br>Haryana, India  |             |            |
| Object Of Declaration :   | Erlenmeyer Flask, Narrow Neck   |             |            |
| Material :  | Borosilicate Glass  |             |            |
| Purpose Of Use :  | Allow the contents of the flask to be mixed by swirling,<br>without risk of spillage, making them suitable for titration. |             |            |
| Specification of flasks specified in Table 1, DIN ISO 11733 - 1999-05   |   |             |            |
| Catalogue No.   | Product Description   | Capacity ml | Perlt Qty. |
| 237 202 01  | Erlenmeyer Flask, Narrow Neck With Graduation   | 25          | 10         |
| 237 202 02  | Erlenmeyer Flask, Narrow Neck With Graduation   | 50          | 10         |
| 237 202 03  | Erlenmeyer Flask, Narrow Neck With Graduation   | 100         | 10         |
| 237 202 04  | Erlenmeyer Flask, Narrow Neck With Graduation   | 250         | 10         |
| 237 202 05  | Erlenmeyer Flask, Narrow Neck With Graduation   | 500         | 10         |
| 237 202 06  | Erlenmeyer Flask, Narrow Neck With Graduation   | 1000        | 10         |
| 237 202 07  | Erlenmeyer Flask, Narrow Neck With Graduation   | 2000        | 6          |
| 237 202 08  | Erlenmeyer Flask, Narrow Neck With Graduation   | 3000        | 1          |
| 237 202 09  | Erlenmeyer Flask, Narrow Neck With Graduation   | 5000        | 1          |
| <p>The object of declaration described above is in conformity with the requirements of the following documents:</p> <ul style="list-style-type: none"> <li>DIN ISO 1585 Borosilicate Glass 3.3</li> <li>DIN ISO 11733 Laboratory glassware—Erlenmeyer Flask Narrow Neck</li> <li>* Indicates non DIN &amp; non ASTM standards.</li> </ul> <p><b>Material:</b> The above are made from DIN ISO 3355 (heat-resistant Borosilicate 3.3) glass that meets ASTM E-438 TYPE-I GLASS standard.</p> <p><b>Conformance:</b> These flasks comply in every respect characteristics, measures and accuracy are in full conformity with the provisions of the standard: DIN ISO 11733:05-05.</p> <p><b>Additional Information:</b></p> <p>Glasco has established the quality control system as per ISO 9001 and products delivered to the market are in full conformity with the above call Specification as per standard and with all fundamental requirements to such products.</p> <p>Certificate No. IYK 0039-09-01 issued by Intertek certification limited, A UKAS Management System Accredited Body</p>  <p><small>*This document has been produced electronically and is not valid without signature.</small></p> |   |             |            |

**Certificate of conformity**

**Calibration Certificates**

Batch / Lot

| www.glasscolabs.com             |   | GLASSCO LABORATORY EQUIPMENTS PVT. LTD. |  |
|---------------------------------|---|---|--|
| <b>VOLUMETRIC FLASK CLASS A</b> |   |   |  |
| CATALOGUE NO.                   | : | 130.202.105                             |  |
| NOMINAL VOLUME                  | : | 100.00 ml                               |  |
| TOLERANCE                       | : | ±0.10 ml                                |  |
| COMPLIANCE                      | : | ISO 1042:2008                           |  |
| BATCH NO.                       | : | 13.14                                   |  |
| NET VOLUME                      | : | 99.97 ml                                |  |
| CONC FIELD                      | : | 2.017 ml                                |  |
| STANDARD DEVIATION              | : | 0.000000                                |  |
| TESTING DEVICE NAME             | : | 64N TOLBUS                              |  |
| DILUTION                        | : | 100.00 ml                               |  |
| WEIGHTS                         | : | 100g                                    |  |
| TEMPERATURE                     | : | 20.00 °C                                |  |
| UPPER LIMIT                     | : | 100.00 ml                               |  |
| DATE OF ISSUE                   | : | 13.03.14                                |  |

| Individual  |                          |
|---|--------------------------|
| Glasco Laboratory Equipments Pvt. Ltd.                            |                          |
| <b>CALIBRATION CERTIFICATE</b><br>(Glasco Calibration Laboratory) |                          |
| DATE OF CALIBRATION   | 13.03.2014               |
| ITEM NO.  | 130.202.105              |
| ITEM NAME   | VOLUMETRIC FLASK CLASS A |
| ITEM SPECIFICATION  | ISO 1042:2008            |
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| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00 °C                 |
| ITEM UPPER LIMIT  | 100.00 ml                |
| ITEM LOWER LIMIT  | 99.97 ml                 |
| ITEM NET VOLUME   | 99.97 ml                 |
| ITEM STANDARD DEVIATION   | 2.017 ml                 |
| ITEM DILUTION   | 100.00 ml                |
| ITEM WEIGHTS  | 100g                     |
| ITEM TEMPERATURE  | 20.00                    |



## Interchangable Glassware

1 - 24

## Tubes & Vials

25 - 36



## Volumetric Labware

37 - 78

## Separating Funnels

79 - 88



## Condensers/Assemblies

89 - 98

## General Labware

99 - 122



## Filtration Glassware

123 - 134

## Bottles & Stopcocks

135 - 147





Interchangeable  
Glassware



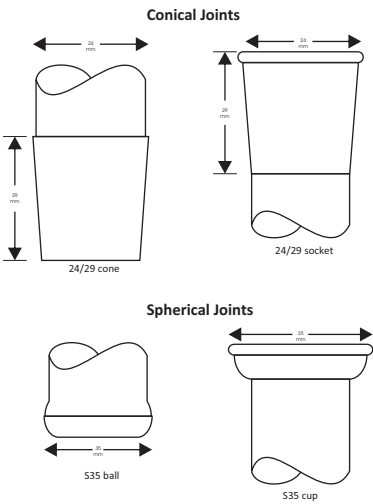
# Standard Joints

## JOINTS

- In compliance with ISO 383/DIN 12249 Standards.
- Unprinted sockets to avoid getting printed charred
- Smooth grinding surface finish to avoid leakage

### Conical Joints

| Size    | Actual Dia of Wide End (mm) | Actual Dia of Narrow End (mm) | Nominal Length of Engagement (mm) |
|---------|-----------------------------|-------------------------------|-----------------------------------|
| 10 / 19 | 10.0                        | 8.1                           | 19                                |
| 12 / 21 | 12.5                        | 10.4                          | 21                                |
| 14 / 23 | 14.5                        | 12.2                          | 23                                |
| 19 / 26 | 18.8                        | 16.2                          | 26                                |
| 24 / 29 | 24.0                        | 21.1                          | 29                                |
| 29 / 32 | 29.2                        | 26.0                          | 32                                |
| 34 / 35 | 34.5                        | 31.0                          | 35                                |
| 40 / 38 | 40.0                        | 36.2                          | 38                                |
| 45 / 40 | 45.0                        | 41.0                          | 40                                |
| 50 / 42 | 50.0                        | 45.8                          | 42                                |
| 55 / 44 | 55.0                        | 50.6                          | 44                                |



| Item Code   | Socket Size | Approx. O.D. of tube mm | Total Length mm | Pcs/ Pack |
|-------------|-------------|-------------------------|-----------------|-----------|
| 001.202.02  | 10 / 19     | 13                      | 120±10          | 10        |
| 001.202.03  | 12 / 21     | 16                      | 120±10          | 10        |
| 001.202.04  | 14 / 23     | 18                      | 120±10          | 10        |
| 001.202.05  | 19 / 26     | 22                      | 125±10          | 10        |
| 001.202.06  | 24 / 29     | 28                      | 135±10          | 10        |
| 001.202.07  | 29 / 32     | 32                      | 135±10          | 10        |
| 001.202.08  | 34 / 35     | 38                      | 150±15          | 10        |
| 001.202.09* | 40 / 38     | 45                      | 150±15          | 10        |
| 001.202.10  | 45 / 40     | 50                      | 150±15          | 10        |
| 001.202.11* | 50 / 42     | 55                      | 150±15          | 10        |
| 001.202.12* | 55 / 44     | 60                      | 150±15          | 10        |

\* Non DIN

| Item Code   | Cone Size | Approx. O.D. of tube mm | Total Length mm | Pcs/ Pack |
|-------------|-----------|-------------------------|-----------------|-----------|
| 002.202.02  | 10 / 19   | 8                       | 120±10          | 10        |
| 002.202.03  | 12 / 21   | 9                       | 120±10          | 10        |
| 002.202.04  | 14 / 23   | 13                      | 120±10          | 10        |
| 002.202.05  | 19 / 26   | 16                      | 120±10          | 10        |
| 002.202.06  | 24 / 29   | 22                      | 150±15          | 10        |
| 002.202.07  | 29 / 32   | 26                      | 150±15          | 10        |
| 002.202.08  | 34 / 35   | 30                      | 150±15          | 10        |
| 002.202.09* | 40 / 38   | 36                      | 150±15          | 10        |
| 002.202.10  | 45 / 40   | 40                      | 150±15          | 10        |
| 002.202.11* | 50 / 42   | 45                      | 150±15          | 10        |
| 002.202.12* | 55 / 44   | 50                      | 150±15          | 10        |

\* Non DIN





## Joints



Cones  
with Tip Single  
DIN 12249

| Item Code   | Cone Size | Approx. O.D. of tube mm | Total Length mm | Pcs/ Pack |
|-------------|-----------|-------------------------|-----------------|-----------|
| 003.202.03  | 12 / 21   | 9                       | 120±10          | 10        |
| 003.202.04  | 14 / 23   | 13                      | 120±10          | 10        |
| 003.202.05  | 19 / 26   | 16                      | 120±10          | 10        |
| 003.202.06  | 24 / 29   | 22                      | 150±15          | 10        |
| 003.202.07  | 29 / 32   | 26                      | 150±15          | 10        |
| 003.202.08  | 34 / 35   | 30                      | 150±15          | 10        |
| 003.202.09* | 40 / 38   | 36                      | 150±15          | 10        |
| 003.202.10  | 45 / 40   | 40                      | 150±15          | 10        |
| 003.202.11* | 50 / 42   | 45                      | 150±15          | 10        |
| 003.202.12* | 55 / 44   | 50                      | 150±15          | 10        |

\* Non DIN

### As per ASTM Standard E 676

| Item Code  | Socket Size | Approx. O.D. of tube mm | Total Length mm | Pcs/ Pack |
|------------|-------------|-------------------------|-----------------|-----------|
| 004.202.03 | 10 / 30     | 13                      | 120±10          | 10        |
| 004.202.04 | 12 / 32     | 16                      | 120±10          | 10        |
| 004.202.05 | 14 / 35     | 18                      | 120±10          | 10        |
| 004.202.06 | 19 / 38     | 22                      | 125±10          | 10        |
| 004.202.07 | 24 / 40     | 28                      | 135±15          | 10        |
| 004.202.08 | 29 / 42     | 32                      | 135±15          | 10        |
| 004.202.09 | 34 / 45     | 38                      | 150±15          | 10        |
| 004.202.10 | 45 / 50     | 50                      | 150±15          | 10        |

ASTM

Socket  
Full Length  
Single



Cones  
Full Length  
Plain & Single

ASTM

### As per ASTM Standard E 676

| Item Code  | Cone Size | Approx. O.D. of tube mm | Total Length mm | Pcs/ Pack |
|------------|-----------|-------------------------|-----------------|-----------|
| 005.202.03 | 10 / 30   | 8                       | 120±10          | 10        |
| 005.202.04 | 12 / 32   | 10                      | 120±10          | 10        |
| 005.202.05 | 14 / 35   | 13                      | 120±10          | 10        |
| 005.202.06 | 19 / 38   | 16                      | 120±10          | 10        |
| 005.202.07 | 24 / 40   | 22                      | 150±15          | 10        |
| 005.202.08 | 29 / 42   | 26                      | 150±15          | 10        |
| 005.202.09 | 34 / 45   | 30                      | 150±15          | 10        |
| 005.202.10 | 45 / 50   | 40                      | 150±15          | 10        |

| Item Code   | Socket Size | Approx. O.D. of tube mm | Total Length mm | Pcs/ Pack |
|-------------|-------------|-------------------------|-----------------|-----------|
| 006.202.02* | 10 / 19     | 14                      | 135±2           | 10        |
| 006.202.03  | 14 / 23     | 18                      | 135±2           | 10        |
| 006.202.04  | 19 / 26     | 22                      | 140±2           | 10        |
| 006.202.05  | 24 / 29     | 28                      | 170±5           | 10        |
| 006.202.06  | 29 / 32     | 32                      | 170±5           | 10        |
| 006.202.07  | 34 / 35     | 38                      | 180±5           | 10        |

\* Non DIN

Sockets  
Double  
DIN 12249





Keck Clips for Joints

- Manufactured from PP
- Outstanding chemical resistant.
- Autoclavable with maximum operating temp of 135°C.

| Item Code  | N/S   | Colour | Pcs/ Pack |
|------------|-------|--------|-----------|
| 007.204.03 | 14/23 | Yellow | 100       |
| 007.204.04 | 19/26 | Blue   | 100       |
| 007.204.05 | 24/29 | Green  | 100       |
| 007.204.06 | 29/32 | Red    | 100       |

Spherical Joint

- Unprinted sockets to avoid getting printed charred
- Smooth grinding surface finish to avoid leakage

DIN 12264

| Item Code   | Cup Joint (male) | Code Approx. Bore | Manimum Shank Length mm | Pcs/ Pack |
|-------------|------------------|-------------------|-------------------------|-----------|
| 008.202.02  | S13              | 5                 | 100                     | 10        |
| 008.202.03  | S19              | 9                 | 100                     | 10        |
| 008.202.04  | S29              | 15                | 100                     | 10        |
| 008.202.05* | S35              | 19                | 100                     | 10        |
| 008.202.06* | S41              | 27                | 100                     | 10        |

\* Non DIN



DIN 12264

| Item Code   | Cup Joint (Female) | Code Approx. Bore | Manimum Shank Length mm | Pcs/ Pack |
|-------------|--------------------|-------------------|-------------------------|-----------|
| 009.202.02  | S13                | 5                 | 100                     | 10        |
| 009.202.03  | S19                | 9                 | 100                     | 10        |
| 009.202.04  | S29                | 15                | 100                     | 10        |
| 009.202.05* | S35                | 19                | 100                     | 10        |
| 009.202.06* | S41                | 27                | 100                     | 10        |

\* Non DIN



Clips for Spherical Joint

- Manufactured from metal which is resistant to corrosion.
- Used for retaining of the spherical joint

| Item Code  | To fit flat spherical joint size | To fit flat flange joint size | Pcs/ Pack |
|------------|----------------------------------|-------------------------------|-----------|
| 010.202.01 | S13                              | -                             | 10        |
| 010.202.02 | S19                              | -                             | 10        |
| 010.202.03 | S29                              | -                             | 10        |
| 010.202.04 | S35                              | -                             | 10        |
| 010.202.05 | S41                              | -                             | 10        |





## Stoppers

### Stoppers , Hollow with Flat bottom

- In compliance with Din 12252 standard
- Used on different kind of jointed products like bottles, stoppered cylinder and jointed flasks mainly volumetric flasks.
- Hexagonal head if placed on at head end avoids contamination of ground surface , with hexagonal form head it also helps in preventing the rolling of the stopper and provides a good grip.
- The stoppers below comes in drip tip form also which if placed on the flask helps liquid to return to the flask till the last drop.

Hollow  
Stoppers

### DIN 12252

| Item Code   | N/S     | Bottom Type | Pcs/<br>Pack |
|-------------|---------|-------------|--------------|
| 011.202.01  | 10 / 19 | Flat        | 100          |
| 011.202.02  | 12 / 21 | -           | 100          |
| 011.202.02A | 14 / 23 | -           | 100          |
| 011.202.03  | 19 / 26 | -           | 100          |
| 011.202.04  | 24 / 29 | -           | 100          |
| 011.202.05  | 29 / 32 | -           | 100          |
| 011.202.06  | 34 / 35 | -           | 100          |
| 011.205.01  | 10 / 19 | Tip         | 100          |
| 011.205.02  | 12 / 21 | -           | 100          |
| 011.205.03  | 14 / 23 | -           | 100          |
| 011.205.04  | 19 / 26 | -           | 100          |
| 011.205.05  | 24 / 29 | -           | 100          |
| 011.205.06  | 29 / 32 | -           | 100          |
| 011.205.07  | 34 / 35 | -           | 100          |

PS : Hollow Stoppers can be provided in Amber color.  
Prices can be sent on request.



Plastic  
Stoppers

### Stopper, Polyethylene.

- Manufactured from polyethylene .
- In compliance with Din 12254 standard
- Used mainly with volumetric flasks the hexagonal form large head provides good grip and also protects flasks from breaking if it drops accidentally .

### White & Blue DIN 12254

| Item Code   | N/S     | Pcs/<br>Pack |
|-------------|---------|--------------|
| 011.232.01  | 10 / 19 | 100          |
| 011.232.02  | 12 / 21 | 100          |
| 011.232.03  | 14 / 23 | 100          |
| 011.232.04  | 19 / 26 | 100          |
| 011.232.05  | 24 / 29 | 50           |
| 011.232.06  | 29 / 32 | 50           |
| 011.232.07* | 34 / 35 | 50           |

\* Non DIN





# Stoppers & Adapters

## Stopper Solid Penny Head

- Used on different kind of jointed products like bottles, stoppered cylinder and jointed flasks mainly volumetric flasks.
- The stopper provides a good grip.
- Stoppers mentioned below come in two forms one is DIN STANDARD joint sizes and ASTM standard joint sizes which is mainly used on Volumetric Flasks.



| Item Code   | N/S   | Pcs/ Pack |
|-------------|-------|-----------|
| 012.202.01  | 10/19 | 100       |
| 012.202.02  | 14/23 | 100       |
| 012.202.03  | 19/26 | 100       |
| 012.202.04  | 24/29 | 100       |
| 012.202.05* | 29/32 | 100       |
| 012.202.06* | 34/35 | 100       |

\* Non DIN

## Solid Penny Head Glass Stoppers for ASTM Standard Flasks

The Flasks with ASTM E 288 Standard can also be provided with Penny Head Stoppers

| Item Code   | Description       | Pack Size |
|-------------|-------------------|-----------|
| 012.269.02  | STOPPER NUMBER 13 | 100       |
| 012.269.02A | STOPPER NUMBER 16 | 100       |
| 012.269.03  | STOPPER NUMBER 19 | 100       |
| 012.269.04  | STOPPER NUMBER 22 | 100       |
| 012.269.05  | STOPPER NUMBER 27 | 100       |

PS : Penny Head Stoppers can be provided in Amber color. Prices can be sent on request.



## Bushing Adapters with Drip Tip

- Thick wall and reinforced rim.
- Outside of the bushing has full length and inside has smaller length.

| Item Code  | Socket Size | Cone Size | Pcs/ Pack |
|------------|-------------|-----------|-----------|
| 013.230.01 | 14 / 23     | 19 / 26   | 100       |
| 013.230.02 | 19 / 26     | 29 / 32   | 100       |



## Adapters

All adapters come in different shapes and sizes and are manufactured from ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS.

PS: All these adapter are made as per DIN standard joint sizes but on special request can also be provided with ASTM joint sizes.

### DIN 12257

| Item Code    | Sockets size | Cone size | Pcs/ Pack |
|--------------|--------------|-----------|-----------|
| 013.202.01 * | 14 / 23      | 14 / 23   | 10        |
| 013.202.01A  | 14 / 23      | 19 / 26   | 10        |
| 013.202.02 * | 14 / 23      | 24 / 29   | 10        |
| 013.202.03   | 14 / 23      | 29 / 32   | 10        |
| 013.202.04   | 19 / 26      | 24 / 29   | 10        |
| 013.202.05   | 19 / 26      | 29 / 32   | 10        |
| 013.202.06   | 19 / 26      | 34 / 35   | 10        |
| 013.202.07   | 19 / 26      | 40 / 38   | 10        |
| 013.202.08   | 19 / 26      | 45 / 40   | 10        |
| 013.202.09   | 19 / 26      | 55 / 44   | 10        |
| 013.202.10 * | 24 / 29      | 29 / 32   | 10        |
| 013.202.11 * | 24 / 29      | 34 / 35   | 10        |
| 013.202.12 * | 24 / 29      | 40 / 38   | 10        |
| 013.202.13 * | 24 / 29      | 45 / 40   | 10        |
| 013.202.14 * | 24 / 29      | 50 / 42   | 10        |
| 013.202.15 * | 24 / 29      | 55 / 44   | 10        |
| 013.202.16   | 29 / 32      | 34 / 35   | 10        |
| 013.202.17   | 29 / 32      | 40 / 38   | 10        |
| 013.202.18   | 29 / 32      | 45 / 40   | 10        |
| 013.202.19 * | 34 / 35      | 40 / 38   | 10        |
| 013.202.20 * | 34 / 35      | 45 / 40   | 10        |
| 013.202.21 * | 34 / 35      | 50 / 42   | 10        |

\* Non DIN

Reduction  
Adapters



Expansion  
Adapters

### DIN 12257

| Item Code    | Sockets size | Cone size | Pcs/ Pack |
|--------------|--------------|-----------|-----------|
| 014.202.01   | 19 / 26      | 14 / 23   | 10        |
| 014.202.02 * | 24 / 29      | 14 / 23   | 10        |
| 014.202.03 * | 24 / 29      | 19 / 26   | 10        |
| 014.202.03A  | 29 / 32      | 14 / 23   | 10        |
| 014.202.04   | 29 / 32      | 19 / 26   | 10        |
| 014.202.05 * | 29 / 32      | 24 / 29   | 10        |
| 014.202.06 * | 34 / 35      | 19 / 26   | 10        |
| 014.202.07 * | 34 / 35      | 24 / 29   | 10        |
| 014.202.08 * | 34 / 35      | 29 / 32   | 10        |
| 014.202.09 * | 40 / 38      | 24 / 29   | 10        |
| 014.202.10 * | 45 / 40      | 29 / 32   | 10        |

\* Non DIN





**Multiple Adapters** With two parallel necks, DIN 12594

| Item Code    | Socket Size | Cone Size | Pcs/ Pack |
|--------------|-------------|-----------|-----------|
| 015.202.01   | 14 / 23     | 14 / 23   | 1         |
| 015.202.01A* | 14 / 23     | 19 / 26   | 1         |
| 015.202.02   | 19 / 26     | 19 / 26   | 1         |
| 015.202.03 * | 19 / 26     | 24 / 29   | 1         |
| 015.202.04 * | 24 / 29     | 24 / 29   | 1         |
| 015.202.05 * | 19 / 26     | 34 / 35   | 1         |
| 015.202.06   | 29 / 32     | 29 / 32   | 1         |

\* Non DIN

**Multiple Adapters**  
with two necks, one vertical & one at 45°

| Item Code   | Socket Size | Cone Size | Pcs/ Pack |
|-------------|-------------|-----------|-----------|
| 016.202.01  | 14 / 23     | 14 / 23   | 1         |
| 016.202.01A | 14 / 23     | 19 / 26   | 1         |
| 016.202.01B | 14 / 23     | 24 / 29   | 1         |
| 016.202.02  | 19 / 26     | 19 / 26   | 1         |
| 016.202.03  | 19 / 26     | 24 / 29   | 1         |
| 016.202.04  | 14 / 23     | 29 / 32   | 1         |
| 016.202.05  | 29 / 32     | 29 / 32   | 1         |



**Multiple Adapters**  
with three necks, two parallel & one at 45°

| Item Code   | Socket Size | Cone Size | Pcs/ Pack |
|-------------|-------------|-----------|-----------|
| 017.202.01  | 19 / 26     | 19 / 26   | 1         |
| 017.202.01A | 19 / 26     | 24 / 29   | 1         |
| 017.202.02  | 19 / 26     | 29 / 32   | 1         |
| 017.202.03  | 24 / 29     | 24 / 29   | 1         |
| 017.202.04  | 29 / 32     | 29 / 32   | 1         |



## Adapters

**Swan Neck Adapter** with screw thread to accept thermometers, air leak tubes etc

| Item Code   | Socket Size | Cone Size | Pcs/ Pack |
|-------------|-------------|-----------|-----------|
| 018.202.01  | 14 / 23     | 19 / 26   | 1         |
| 018.202.01A | 19 / 26     | 19 / 26   | 1         |
| 018.202.02  | 19 / 26     | 24 / 29   | 1         |
| 018.202.03  | 24 / 29     | 24 / 29   | 1         |
| 018.202.04  | 29 / 32     | 29 / 32   | 1         |

Swan Neck Adapter



Receiver Delivery Adapter

### Short Stem

| Item Code  | Socket Size | Approx. length mm | Pcs/ Pack |
|------------|-------------|-------------------|-----------|
| 019.202.01 | 14 / 23     | 65                | 1         |
| 019.202.02 | 19 / 26     | 65                | 1         |
| 019.202.03 | 24 / 29     | 65                | 1         |
| 019.202.04 | 29 / 32     | 65                | 1         |

### Long Stem

| Item Code  | Socket Size | Approx. length mm | Pcs/ Pack |
|------------|-------------|-------------------|-----------|
| 019.202.05 | 14 / 23     | 190               | 1         |
| 019.202.06 | 19 / 26     | 200               | 1         |
| 019.202.07 | 24 / 29     | 200               | 1         |
| 019.202.08 | 29 / 32     | 200               | 1         |

### Receiver Adapters Straight

| Item Code  | Socket Size | Pcs/ Pack |
|------------|-------------|-----------|
| 020.202.01 | 14 / 23     | 1         |
| 020.202.02 | 19 / 26     | 1         |
| 020.202.03 | 24 / 29     | 1         |
| 020.202.04 | 29 / 32     | 1         |

Receiver Adapter



# Adapters



## Receiver Adapters Bend with Vent

| Item Code  | Socket Size | Cone Size | Pcs/ Pack |
|------------|-------------|-----------|-----------|
| 021.202.01 | 14 / 23     | 14 / 23   | 1         |
| 021.202.02 | 19 / 26     | 19 / 26   | 1         |
| 021.202.03 | 19 / 26     | 24 / 29   | 1         |
| 021.202.04 | 24 / 29     | 24 / 29   | 1         |
| 021.202.05 | 29 / 32     | 29 / 32   | 1         |

## Straight with Vacuum Connection & Screw Thread Adapter, DIN 12594

| Item Code    | Socket Size | Cone Size | Pcs/ Pack |
|--------------|-------------|-----------|-----------|
| 022.202.01   | 14 / 23     | 14 / 23   | 1         |
| 022.202.02 * | 14 / 23     | 19 / 26   | 1         |
| 022.202.02A  | 19 / 26     | 19 / 26   | 1         |
| 022.202.03 * | 19 / 26     | 24 / 29   | 1         |
| 022.202.04 * | 24 / 29     | 24 / 29   | 1         |
| 022.202.05 * | 24 / 29     | 29 / 32   | 1         |
| 022.202.06   | 29 / 32     | 29 / 32   | 1         |

\* Non DIN



## Bend with Vacuum Connection & Screw Thread Adapter, DIN 12594

| Item Code    | Socket Size | Cone Size | Pcs/ Pack |
|--------------|-------------|-----------|-----------|
| 022.201.01   | 14 / 23     | 14 / 23   | 1         |
| 022.201.02 * | 14 / 23     | 19 / 26   | 1         |
| 022.201.03   | 19 / 26     | 19 / 26   | 1         |
| 022.201.04 * | 19 / 26     | 24 / 29   | 1         |
| 022.201.05 * | 24 / 29     | 24 / 29   | 1         |
| 022.201.06 * | 24 / 29     | 29 / 32   | 1         |
| 022.201.07   | 29 / 32     | 29 / 32   | 1         |

\* Non DIN





## Adapters

**Receiver Adapter with One Side Inclined** at an angle of 105°

| Item Code  | Socket Size | Cone Size | Pcs/ Pack |
|------------|-------------|-----------|-----------|
| 023.202.01 | 14 / 23     | 14 / 23   | 1         |
| 023.202.02 | 19 / 26     | 19 / 26   | 1         |
| 023.202.03 | 19 / 26     | 24 / 29   | 1         |
| 023.202.04 | 24 / 29     | 24 / 29   | 1         |
| 023.202.05 | 29 / 32     | 29 / 32   | 1         |

Receiver  
Adapters



Receiver  
Adapters

**Receiver Adapter with Multiple Connection & Screw Thread**

| Item Code  | Socket Size | Cone Size | Pcs/ Pack |
|------------|-------------|-----------|-----------|
| 024.202.01 | 14 / 23     | 14 / 23   | 1         |
| 024.202.02 | 14 / 23     | 19 / 26   | 1         |
| 024.202.03 | 19 / 26     | 19 / 26   | 1         |

**Plain Bend**

| Item Code   | Socket Size | Cone Size | Pcs/ Pack |
|-------------|-------------|-----------|-----------|
| 025.202.00  | 14 / 23     | 14 / 23   | 1         |
| 025.202.00A | 14 / 23     | 19 / 26   | 1         |
| 025.202.01  | 19 / 26     | 19 / 26   | 1         |
| 025.202.02  | 19 / 26     | 24 / 29   | 1         |
| 025.202.03  | 24 / 29     | 24 / 29   | 1         |
| 025.202.04  | 29 / 32     | 29 / 32   | 1         |

Receiver  
Adapters



# Adapters



Recovery  
Bend

## Recovery Bend with Sloping End

| Item Code  | Cone Size to fit flask | Cone size to fit condenser | Pcs/ Pack |
|------------|------------------------|----------------------------|-----------|
| 026.202.01 | 14 / 23                | 14 / 23                    | 1         |
| 026.202.02 | 24 / 29                | 14 / 23                    | 1         |
| 026.202.03 | 19 / 26                | 19 / 26                    | 1         |
| 026.202.04 | 24 / 29                | 19 / 26                    | 1         |
| 026.202.05 | 29 / 32                | 19 / 26                    | 1         |
| 026.202.06 | 29 / 32                | 29 / 32                    | 1         |
| 026.202.07 | 24 / 29                | 24 / 29                    | 1         |
| 026.202.08 | 34 / 35                | 24 / 29                    | 1         |
| 026.202.09 | 29 / 32                | 24 / 29                    | 1         |
| 026.202.10 | 34 / 35                | 34 / 35                    | 1         |

## Vertical

| Item Code  | Cone Size to fit flask | Cone size to fit condenser | Pcs/ Pack |
|------------|------------------------|----------------------------|-----------|
| 027.202.01 | 14 / 23                | 14 / 23                    | 1         |
| 027.202.02 | 19 / 26                | 19 / 26                    | 1         |
| 027.202.03 | 24 / 29                | 19 / 26                    | 1         |
| 027.202.04 | 24 / 29                | 24 / 29                    | 1         |
| 027.202.05 | 29 / 32                | 29 / 32                    | 1         |

Recovery  
Bend



Still Head  
Plain

## with Thermometer Socket

| Item Code  | Socket Size | Cone size to fit flask | Cone size to fit condenser | Pcs/ Pack |
|------------|-------------|------------------------|----------------------------|-----------|
| 028.202.01 | 14 / 23     | 14 / 23                | 14 / 23                    | 1         |
| 028.202.02 | 14 / 23     | 19 / 26                | 19 / 26                    | 1         |
| 028.202.03 | 14 / 23     | 24 / 29                | 19 / 26                    | 1         |
| 028.202.04 | 14 / 23     | 29 / 32                | 19 / 26                    | 1         |
| 028.202.05 | 14 / 23     | 34 / 35                | 19 / 26                    | 1         |
| 028.202.06 | 14 / 23     | 24 / 29                | 24 / 29                    | 1         |
| 028.202.07 | 14 / 23     | 34 / 35                | 24 / 29                    | 1         |
| 028.202.08 | 14 / 23     | 29 / 32                | 24 / 29                    | 1         |
| 028.202.09 | 14 / 23     | 29 / 32                | 29 / 32                    | 1         |
| 028.202.10 | 14 / 23     | 34 / 35                | 29 / 32                    | 1         |





## Adapters

### Sloping with 2 x B14 Socket

| Item Code  | Socket Size | Cone Size to fit flask | Cone size to fit condenser | Pcs/ Pack |
|------------|-------------|------------------------|----------------------------|-----------|
| 029.202.01 | 14 / 23     | 14 / 23                | 14 / 23                    | 1         |
| 029.202.02 | 14 / 23     | 19 / 26                | 19 / 26                    | 1         |
| 029.202.03 | 14 / 23     | 24 / 29                | 19 / 26                    | 1         |
| 029.202.04 | 14 / 23     | 24 / 29                | 24 / 29                    | 1         |
| 029.202.05 | 14 / 23     | 29 / 32                | 29 / 32                    | 1         |
| 029.202.06 | 14 / 23     | 34 / 35                | 24 / 29                    | 1         |

Claisen  
Heads



Splash  
Heads

### Vertical

| Item Code  | Socket Size | Cone Size | Pcs/ Pack |
|------------|-------------|-----------|-----------|
| 030.202.01 | 14 / 23     | 14 / 23   | 1         |
| 030.202.02 | 19 / 26     | 24 / 29   | 1         |
| 030.202.03 | 29 / 32     | 29 / 32   | 1         |

### Vertical Pear Shape

| Item Code  | Cone Size to fit flask | Cone size to fit condenser | Pcs/ Pack |
|------------|------------------------|----------------------------|-----------|
| 031.202.01 | 14 / 23                | 14 / 23                    | 1         |
| 031.202.02 | 19 / 26                | 19 / 26                    | 1         |
| 031.202.03 | 24 / 29                | 19 / 26                    | 1         |
| 031.202.04 | 24 / 29                | 24 / 29                    | 1         |
| 031.202.05 | 29 / 32                | 29 / 32                    | 1         |

Splash  
Heads



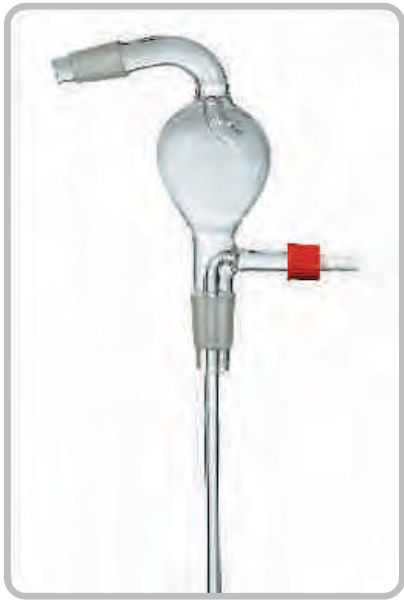


**Sloping Pear Shape**

| Item Code  | Cone Size to fit flask | Cone size to fit condenser | Pcs/ Pack |
|------------|------------------------|----------------------------|-----------|
| 032.202.01 | 14 / 23                | 14 / 23                    | 1         |
| 032.202.02 | 19 / 26                | 19 / 26                    | 1         |
| 032.202.03 | 24 / 29                | 19 / 26                    | 1         |
| 032.202.04 | 24 / 29                | 24 / 29                    | 1         |
| 032.202.05 | 29 / 32                | 29 / 32                    | 1         |

**Steam Distillation Heads with screw thread Sloping**

| Item Code  | Cone Size to fit flask | Cone size to fit condenser | Pcs/ Pack |
|------------|------------------------|----------------------------|-----------|
| 033.202.01 | 24 / 29                | 19 / 26                    | 1         |
| 033.202.02 | 34 / 35                | 19 / 26                    | 1         |
| 033.202.03 | 34 / 35                | 24 / 29                    | 1         |



**Stopcock Cone with Glass stopcock**

| Item Code  | Cone    | Stop cock Bore | Pcs/ Pack |
|------------|---------|----------------|-----------|
| 034.202.01 | 14 / 23 | 3              | 1         |
| 034.202.02 | 19 / 26 | 3              | 1         |
| 034.202.03 | 24 / 29 | 3              | 1         |
| 034.202.04 | 29 / 32 | 3              | 1         |

PS : The above Adapter can be supplied with PTFE key or PTFE Needle valve Stopcock also. Please ask for prices separately.



## Adapters

### Stopcock Socket with Glass stopcock

| Item Code  | Socket  | Stop cock Bore | Pcs/ Pack |
|------------|---------|----------------|-----------|
| 035.202.01 | 14 / 23 | 3              | 1         |
| 035.202.02 | 19 / 26 | 3              | 1         |
| 035.202.03 | 24 / 29 | 3              | 1         |
| 035.202.04 | 29 / 32 | 3              | 1         |

PS : The above Adapter can be supplied with PTFE key or PTFE Needle valve Stopcock also. Please ask for prices separately.

Socket  
Adapter



Cone  
Adapter

### Adapter Cone to Rubber Tubing Right angle connection with screw thread

| Item Code  | Cone    | Pcs/ Pack |
|------------|---------|-----------|
| 036.202.01 | 14 / 23 | 1         |
| 036.202.02 | 19 / 26 | 1         |
| 036.202.03 | 24 / 29 | 1         |
| 036.202.04 | 29 / 32 | 1         |

### Adapter Cone with Stem to Rubber Tubing Right angle connection

| Item Code  | Cone    | Pcs/ Pack |
|------------|---------|-----------|
| 037.202.01 | 14 / 23 | 1         |
| 037.202.02 | 19 / 26 | 1         |
| 037.202.03 | 24 / 29 | 1         |
| 037.202.04 | 29 / 32 | 1         |

Cone  
Adapter





Adapter Sockets to Rubber Tubing  
connection with Screw Thread

| Item Code  | Cone    | Pcs/<br>Pack |
|------------|---------|--------------|
| 038.202.01 | 14 / 23 | 1            |
| 038.202.02 | 19 / 26 | 1            |
| 038.202.03 | 24 / 29 | 1            |
| 038.202.04 | 29 / 32 | 1            |

Socket to Cone  
with side arm & screw thread

| Item Code  | Socket  | Cone    | Pcs/<br>Pack |
|------------|---------|---------|--------------|
| 039.202.01 | 14 / 23 | 14 / 23 | 1            |
| 039.202.02 | 14 / 23 | 19 / 26 | 1            |
| 039.202.03 | 14 / 23 | 24 / 29 | 1            |
| 039.202.04 | 14 / 23 | 29 / 32 | 1            |
| 039.202.05 | 19 / 26 | 19 / 26 | 1            |
| 039.202.06 | 19 / 26 | 24 / 29 | 1            |
| 039.202.07 | 19 / 26 | 29 / 32 | 1            |
| 039.202.08 | 24 / 29 | 24 / 29 | 1            |
| 039.202.09 | 24 / 29 | 29 / 32 | 1            |
| 039.202.10 | 29 / 32 | 29 / 32 | 1            |



Drying Tube

| Item Code  | Cone    | Pcs/<br>Pack |
|------------|---------|--------------|
| 041.202.01 | 14 / 23 | 10           |
| 041.202.02 | 19 / 26 | 10           |
| 041.202.03 | 24 / 29 | 10           |
| 041.202.04 | 29 / 32 | 10           |



## Adapters



Thermometer  
Pocket

### Thermometer Pocket

| Item Code  | Cone    | Approx. Stem Length | Pcs/ Pack |
|------------|---------|---------------------|-----------|
| 042.202.01 | 14 / 23 | 45mm                | 10        |
| 042.202.02 | 19 / 26 | 45mm                | 10        |

### Air Leak Tube/Gas Inlet Tube

| Item Code  | Cone    | Pcs/ Pack |
|------------|---------|-----------|
| 044.202.01 | 14 / 23 | 10        |
| 044.202.02 | 19 / 26 | 10        |
| 044.202.03 | 24 / 29 | 10        |
| 044.202.04 | 29 / 32 | 10        |

Air Leak  
Gas Inlet  
Tube



Cone  
Adapter

### Adapter Cone Screw Thread

| Item Code  | Cone    | Acceptable Dia Through Screw Thread mm | Pcs/ Pack |
|------------|---------|--|-----------|
| 056.202.01 | 14 / 23 | 6mm                                    | 10        |
| 056.202.02 | 19 / 26 | 6mm                                    | 10        |
| 056.202.03 | 24 / 29 | 6mm                                    | 10        |
| 056.202.04 | 29 / 32 | 6mm                                    | 10        |

### Screw Thread

| Item Code  | Thread GL | Pack |
|------------|-----------|------|
| 056.470.01 | 14        | 100  |

Screw  
Thread



Plastic Hose  
Connection

### Plastic Hose Connection

| Item Code  | Thread GL | Type     | Pack |
|------------|-----------|----------|------|
| 056.474.01 | 14        | Straight | 100  |





## Flasks

All the Flasks Mentioned in this section are manufactured from ASTM 438 type 1 Class BORO 3.3 Heat Resistant Glass.

All the Flasks come with Thick Uniform wall thickness and are printed with white enamel.

All the Flasks comply to their respective DIN / ISO / ASTM & UPS standards. As defined against each product.

These flasks are as per  
**DIN / ISO 4797 and USP standard**

| Item Code    | Nominal capacity ml | Socket Size | Approx. overall height mm. | Dia mm | Pcs/ Pack |
|--------------|---------------------|-------------|----------------------------|--------|-----------|
| 057.202.05   | 25                  | 14 / 23     | 85                         | 41     | 10        |
| 057.202.06 * | 25                  | 19 / 26     | 85                         | 41     | 10        |
| 057.202.07 * | 25                  | 24 / 29     | 85                         | 41     | 10        |
| 057.202.08   | 50                  | 14 / 23     | 90                         | 51     | 10        |
| 057.202.09   | 50                  | 19 / 26     | 90                         | 51     | 10        |
| 057.202.10   | 50                  | 24 / 29     | 115                        | 51     | 10        |
| 057.202.10A  | 50                  | 29 / 32     | 115                        | 51     | 10        |
| 057.202.11   | 100                 | 14 / 23     | 105                        | 64     | 10        |
| 057.202.12   | 100                 | 19 / 26     | 105                        | 64     | 10        |
| 057.202.13   | 100                 | 24 / 29     | 105                        | 64     | 10        |
| 057.202.14   | 100                 | 29 / 32     | 105                        | 64     | 10        |
| 057.202.20   | 250                 | 14 / 23     | 140                        | 85     | 10        |
| 057.202.21   | 250                 | 19 / 26     | 140                        | 85     | 10        |
| 057.202.22   | 250                 | 24 / 29     | 140                        | 85     | 10        |
| 057.202.23   | 250                 | 29 / 32     | 140                        | 85     | 10        |
| 057.202.25 * | 500                 | 19 / 26     | 163                        | 105    | 10        |
| 057.202.26   | 500                 | 24 / 29     | 163                        | 105    | 10        |
| 057.202.27   | 500                 | 29 / 32     | 163                        | 105    | 10        |
| 057.202.29 * | 1000                | 19 / 26     | 200                        | 131    | 10        |
| 057.202.30   | 1000                | 24 / 29     | 200                        | 131    | 10        |
| 057.202.31   | 1000                | 29 / 32     | 200                        | 131    | 10        |
| 057.202.32 * | 1000                | 34 / 35     | 200                        | 131    | 10        |
| 057.202.33   | 2000                | 24 / 29     | 240                        | 166    | 6         |
| 057.202.34   | 2000                | 29 / 32     | 240                        | 166    | 6         |
| 057.202.35 * | 2000                | 34 / 35     | 240                        | 166    | 6         |
| 057.202.36 * | 3000                | 29 / 32     | 260                        | 185    | 1         |
| 057.202.37 * | 3000                | 45 / 40     | 260                        | 185    | 1         |
| 057.202.40 * | 5000                | 29 / 32     | 305                        | 223    | 1         |
| 057.202.41 * | 5000                | 45 / 40     | 305                        | 223    | 1         |
| 057.202.44 * | 10000               | 29 / 32     | 380                        | 279    | 1         |
| 057.202.45   | 10000               | 45 / 40     | 380                        | 279    | 1         |

\* Non DIN

### Round Bottom Flask



Round Bottom Flask with Joint.

These Flasks comes with Ground Joint manufactured as per ASTM E 1403 type 1 specifications.

The Flasks are printed in white colour enamel.

| Item Code   | Capacity ml | Socket Size | Approx. overall height mm. | Dia mm | Pcs/ Pack |
|-------------|-------------|-------------|----------------------------|--------|-----------|
| 057.202.57  | 50          | 24 / 40     | 100                        | 51     | 2         |
| 057.202.58  | 100         | 24 / 40     | 115                        | 64     | 2         |
| 057.202.58A | 200         | 24 / 40     | 128                        | 75     | 2         |
| 057.202.59  | 250         | 24 / 40     | 140                        | 85     | 2         |
| 057.202.59A | 300         | 24 / 40     | 148                        | 88     | 2         |
| 057.202.60  | 500         | 24 / 40     | 158                        | 105    | 2         |
| 057.202.61  | 1000        | 24 / 40     | 185                        | 131    | 1         |
| 057.202.62  | 2000        | 24 / 40     | 215                        | 166    | 1         |

### Round Bottom Flask

ASTM





## Flasks



Flat Bottom Flask

These flasks are as per **DIN / ISO 4797** and **USP standard**

| Item Code    | Nominal capacity ml | Socket Size | Approx. overall height mm. | Dia mm | Pcs/ Pack |
|--------------|---------------------|-------------|----------------------------|--------|-----------|
| 058.202.01   | 50                  | 19 / 26     | 85                         | 51     | 10        |
| 058.202.02   | 50                  | 24 / 29     | 85                         | 51     | 10        |
| 058.202.02A  | 50                  | 29 / 32     | 85                         | 51     | 10        |
| 058.202.03   | 100                 | 19 / 26     | 103                        | 64     | 10        |
| 058.202.04   | 100                 | 24 / 29     | 103                        | 50     | 10        |
| 058.202.05   | 100                 | 29 / 32     | 103                        | 64     | 10        |
| 058.202.07 * | 150                 | 19 / 26     | 115                        | 74     | 10        |
| 058.202.08 * | 150                 | 24 / 29     | 115                        | 74     | 10        |
| 058.202.09 * | 150                 | 29 / 32     | 115                        | 74     | 10        |
| 058.202.11   | 250                 | 19 / 26     | 130                        | 85     | 10        |
| 058.202.12   | 250                 | 24 / 29     | 130                        | 85     | 10        |
| 058.202.13   | 250                 | 29 / 32     | 130                        | 85     | 10        |
| 058.202.15 * | 500                 | 19 / 26     | 160                        | 103    | 10        |
| 058.202.16   | 500                 | 24 / 29     | 160                        | 103    | 10        |
| 058.202.17   | 500                 | 29 / 32     | 160                        | 160    | 10        |
| 058.202.19   | 1000                | 24 / 29     | 187                        | 131    | 10        |
| 058.202.20   | 1000                | 29 / 32     | 187                        | 131    | 10        |
| 058.202.21 * | 1000                | 34 / 35     | 187                        | 131    | 10        |
| 058.202.22   | 2000                | 24/29       | 230                        | 166    | 6         |
| 058.202.23   | 2000                | 29 / 32     | 230                        | 166    | 6         |
| 058.202.24 * | 2000                | 34 / 35     | 230                        | 166    | 6         |

\* Non DIN

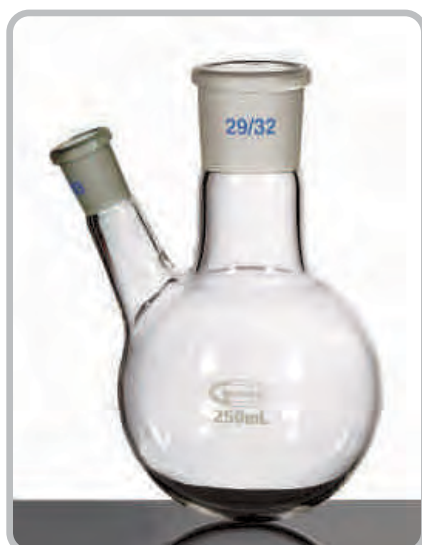
Flat Bottom Flask with Joint.

These Flasks comes with Ground Joint manufactured as per ASTM E 1403 type 1 specifications.

The Flasks are printed in white colour enamel.

| Item Code   | Nominal capacity ml | Socket Size | Approx. overall height mm. | Dia mm | Pcs/ Pack |
|-------------|---------------------|-------------|----------------------------|--------|-----------|
| 058.202.56  | 50                  | 24 / 40     | 103                        | 51     | 2         |
| 058.202.58  | 100                 | 24 / 40     | 103                        | 64     | 2         |
| 058.202.58C | 200                 | 24 / 40     | 122                        | 75     | 2         |
| 058.202.59  | 250                 | 24 / 40     | 130                        | 85     | 2         |
| 058.202.59A | 300                 | 24 / 40     | 140                        | 88     | 2         |
| 058.202.60  | 500                 | 24 / 40     | 160                        | 105    | 2         |
| 058.202.61  | 1000                | 24 / 40     | 187                        | 131    | 1         |
| 058.202.62  | 2000                | 24 / 40     | 230                        | 166    | 1         |

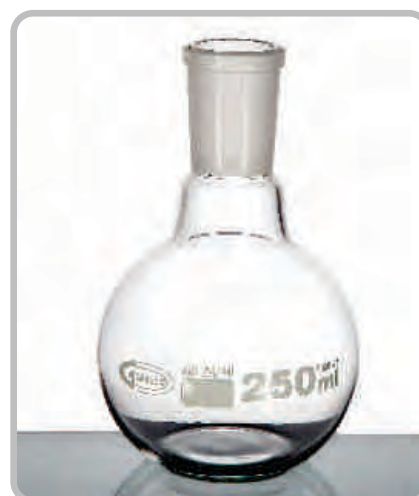
All type of 2 Neck & 3 Neck Flasks comes in uniform wall thickness and is used mainly where different kind of Columns, Condensers and Dropping Funnels can be fitted.



2 Neck Parallel Flask

Flat Bottom Flask

ASTM



### Two Neck

All these flasks are as per **DIN 12394 & USP Standard**

| Item Code  | Nominal Capacity ml | Socket Size | Side Sockets | Approx. overall height mm. | Pcs/ Pack |
|------------|---------------------|-------------|--------------|----------------------------|-----------|
| 059.202.01 | 50                  | 24 / 29     | 14 / 23      | 105                        | 1         |
| 059.202.02 | 50                  | 29 / 32     | 14 / 23      | 105                        | 1         |
| 059.202.03 | 100                 | 24 / 29     | 14 / 23      | 105                        | 1         |
| 059.202.04 | 100                 | 24 / 29     | 19 / 26      | 105                        | 1         |
| 059.202.05 | 100                 | 29 / 32     | 14 / 23      | 105                        | 1         |
| 059.202.06 | 250                 | 24 / 29     | 14 / 23      | 140                        | 1         |
| 059.202.07 | 250                 | 24 / 29     | 19 / 26      | 140                        | 1         |
| 059.202.08 | 250                 | 29 / 32     | 14 / 23      | 140                        | 1         |
| 059.202.09 | 500                 | 24 / 29     | 14 / 23      | 163                        | 1         |
| 059.202.10 | 500                 | 24 / 29     | 19 / 26      | 163                        | 1         |
| 059.202.11 | 500                 | 29 / 32     | 14 / 23      | 163                        | 1         |
| 059.202.12 | 1000                | 24 / 29     | 14 / 23      | 200                        | 1         |
| 059.202.13 | 1000                | 24 / 29     | 19 / 26      | 200                        | 1         |
| 059.202.14 | 1000                | 29 / 32     | 14 / 23      | 200                        | 1         |
| 059.202.15 | 2000                | 34 / 35     | 19 / 26      | 240                        | 1         |

PS : These flasks can also be provided in other joint sizes.



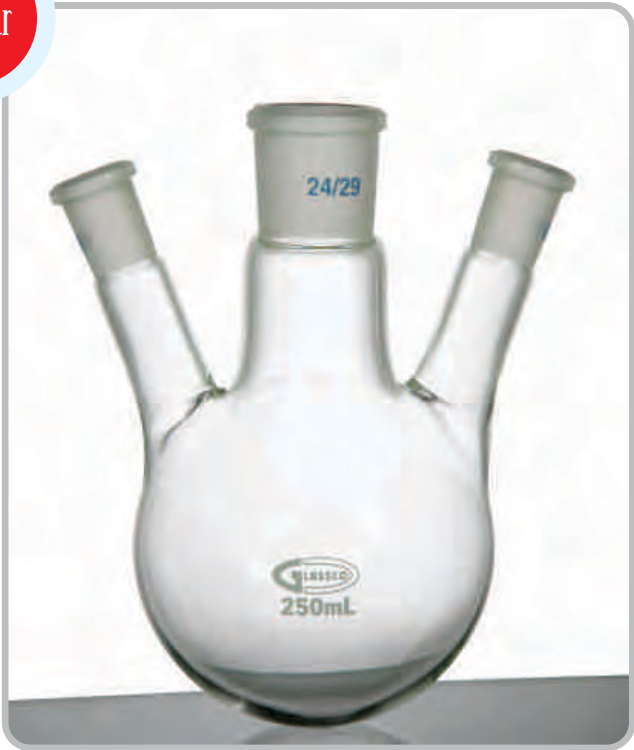
# Flasks



**Three Angular Neck** These flasks are as per ISO 838 standard & USP

| Item Code   | Nominal capacity ml | Centre socket | Side Sockets | Approx. overall height mm. | Pcs/ Pack |
|-------------|---------------------|---------------|--------------|----------------------------|-----------|
| 060.202.01  | 100                 | 19 / 26       | 14 / 23      | 105                        | 1         |
| 060.202.02  | 100                 | 24 / 29       | 14 / 23      | 105                        | 1         |
| 060.202.03  | 100                 | 24 / 29       | 19 / 26      | 105                        | 1         |
| 060.202.03A | 100                 | 29 / 32       | 14 / 23      | 105                        | 1         |
| 060.202.04  | 250                 | 19 / 26       | 19 / 26      | 140                        | 1         |
| 060.202.05  | 250                 | 24 / 29       | 14 / 23      | 140                        | 1         |
| 060.202.06  | 250                 | 24 / 29       | 19 / 26      | 140                        | 1         |
| 060.202.07  | 250                 | 29 / 32       | 14 / 23      | 140                        | 1         |
| 060.202.08  | 250                 | 29 / 32       | 19 / 26      | 140                        | 1         |
| 060.202.08A | 250                 | 29 / 32       | 29 / 32      | 140                        | 1         |
| 060.202.09  | 500                 | 24 / 29       | 14 / 23      | 163                        | 1         |
| 060.202.10  | 500                 | 24 / 29       | 19 / 26      | 163                        | 1         |
| 060.202.11  | 500                 | 29 / 32       | 14 / 23      | 163                        | 1         |
| 060.202.12  | 500                 | 29 / 32       | 19 / 26      | 163                        | 1         |
| 060.202.12A | 500                 | 29 / 32       | 29 / 32      | 163                        | 1         |
| 060.202.13  | 1000                | 24 / 29       | 14 / 23      | 200                        | 1         |
| 060.202.14  | 1000                | 24 / 29       | 19 / 26      | 200                        | 1         |
| 060.202.15  | 1000                | 29 / 32       | 14 / 23      | 200                        | 1         |
| 060.202.16  | 1000                | 29 / 32       | 19 / 26      | 200                        | 1         |
| 060.202.17  | 1000                | 29 / 32       | 29 / 32      | 200                        | 1         |
| 060.202.18  | 2000                | 24 / 29       | 19 / 26      | 240                        | 1         |
| 060.202.19  | 2000                | 29 / 32       | 24 / 29      | 240                        | 1         |
| 060.202.20  | 2000                | 29 / 32       | 29 / 32      | 240                        | 1         |

3 Neck Angular Flask



Round Bottom Flask

**Three Parallel Neck** These flasks are as per DIN 12392 & USP Standard

| Item Code   | Nominal capacity ml | Centre socket | Side Sockets | Approx. overall height mm. | Pcs/ Pack |
|-------------|---------------------|---------------|--------------|----------------------------|-----------|
| 061.202.01  | 250                 | 24 / 29       | 19 / 26      | 140                        | 1         |
| 061.202.02  | 250                 | 29 / 32       | 14 / 23      | 140                        | 1         |
| 061.202.02A | 250                 | 29 / 32       | 29 / 32      | 140                        | 1         |
| 061.202.03  | 500                 | 24 / 29       | 19 / 26      | 163                        | 1         |
| 061.202.04  | 500                 | 29 / 32       | 14 / 23      | 163                        | 1         |
| 061.202.05  | 500                 | 29 / 32       | 19 / 26      | 163                        | 1         |
| 061.202.05A | 500                 | 29 / 32       | 29 / 32      | 163                        | 1         |
| 061.202.06  | 1000                | 24 / 29       | 19 / 26      | 200                        | 1         |
| 061.202.07  | 1000                | 29 / 32       | 14 / 23      | 200                        | 1         |
| 061.202.08  | 1000                | 29 / 32       | 19 / 26      | 200                        | 1         |
| 061.202.09  | 1000                | 29 / 32       | 24 / 29      | 200                        | 1         |
| 061.202.10  | 1000                | 29 / 32       | 29 / 32      | 200                        | 1         |
| 061.202.11  | 2000                | 24 / 29       | 19 / 26      | 240                        | 1         |
| 061.202.12  | 2000                | 29 / 32       | 19 / 26      | 240                        | 1         |
| 061.202.13  | 2000                | 29 / 32       | 29 / 32      | 240                        | 1         |
| 061.202.14  | 2000                | 34 / 35       | 19 / 26      | 240                        | 1         |
| 061.202.15  | 2000                | 34 / 35       | 24 / 29      | 240                        | 1         |

PS : All 2 Neck and 3 Neck Flasks can be provided in ASTM joint sizes on request.

These flasks can also be provided in other joint sizes





## Flasks



Pear Shape  
Flask

To be used for **Semi Micro Distillation**  
Manufactured as per **DIN 12383 & USP standard**

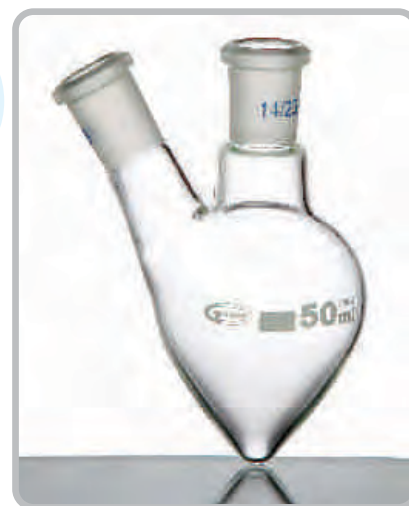
| Item Code    | Nominal capacity ml | Socket  | Approx. diametr mm. | Approx. overall height mm. | Pcs/ Pack |
|--------------|---------------------|---------|---------------------|----------------------------|-----------|
| 062.202.06 * | 25                  | 14 / 23 | 38                  | 90                         | 10        |
| 062.202.07   | 50                  | 14 / 23 | 48                  | 110                        | 10        |
| 062.202.09   | 100                 | 14 / 23 | 58                  | 125                        | 10        |

\* Non DIN

with **Two Neck**,  
side neck at an angle of 25°, DIN 12383

| Item Code  | Nominal capacity ml | Centre socket | Side Socket | Approx. overall height mm. | Pcs/ Pack |
|------------|---------------------|---------------|-------------|----------------------------|-----------|
| 063.202.01 | 50                  | 14 / 23       | 14 / 23     | 110                        | 1         |
| 063.202.02 | 100                 | 14 / 23       | 14 / 23     | 125                        | 1         |

Pear Shape  
Flask



Evaporating  
Flask

To be used in **Rotary Evaporator**

| Item Code  | Nominal capacity ml | Socket Size | Approx. overall height mm. | Pcs/ Pack |
|------------|---------------------|-------------|----------------------------|-----------|
| 069.202.01 | 50                  | 29 / 32     | 94                         | 10        |
| 069.202.03 | 100                 | 29 / 32     | 110                        | 10        |
| 069.202.05 | 250                 | 29 / 32     | 140                        | 10        |
| 069.202.07 | 500                 | 29 / 32     | 170                        | 10        |
| 069.202.09 | 1000                | 29 / 32     | 210                        | 10        |
| 069.202.10 | 2000                | 29 / 32     | 250                        | 6         |

Jointly used for the  
**Determination of Nitrogen**, DIN 12360

| Item Code   | Nominal capacity ml | Socket Size | Approx. overall height mm. | Pcs/ Pack |
|-------------|---------------------|-------------|----------------------------|-----------|
| 070.202.01  | 50                  | 19 / 26     | 162                        | 2         |
| 070.202.02  | 100                 | 19 / 26     | 162                        | 2         |
| 070.202.03  | 100                 | 24 / 29     | 265                        | 2         |
| 070.202.04* | 300                 | 24 / 29     | 295                        | 2         |
| 070.202.05  | 500                 | 24 / 29     | 305                        | 2         |
| 070.202.06* | 800                 | 24 / 29     | 325                        | 2         |

\* Non DIN

Kjeldahl  
Flask with  
Joint



# Flasks



These Flasks are as per ISO 4797 & USP Standards and is ideal for mixing liquids

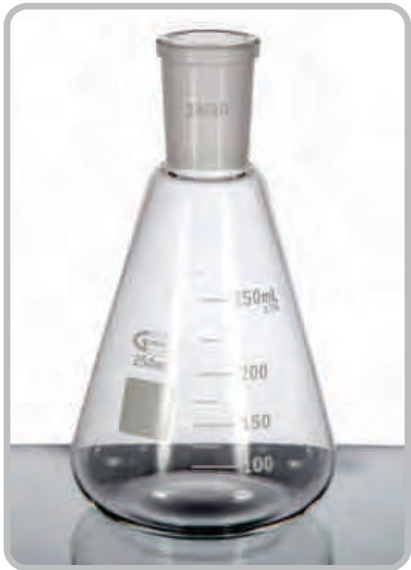
| Item Code    | Nominal capacity ml | Socket Size | Approx. overall height mm. | Approx. overall diameter mm. | Pcs/ Pack |
|--------------|---------------------|-------------|----------------------------|------------------------------|-----------|
| 071.202.06 * | 25                  | 14 / 23     | 75                         | 42                           | 10        |
| 071.202.07 * | 25                  | 19 / 26     | 75                         | 42                           | 10        |
| 071.202.08 * | 50                  | 14 / 23     | 85                         | 51                           | 10        |
| 071.202.09   | 50                  | 19 / 26     | 85                         | 51                           | 10        |
| 071.202.10 * | 50                  | 24 / 29     | 85                         | 64                           | 10        |
| 071.202.10A  | 50                  | 29 / 32     | 85                         | 64                           | 10        |
| 071.202.11 * | 100                 | 14 / 23     | 105                        | 64                           | 10        |
| 071.202.12   | 100                 | 19 / 26     | 105                        | 64                           | 10        |
| 071.202.13 * | 100                 | 24 / 29     | 105                        | 64                           | 10        |
| 071.202.14   | 100                 | 29 / 32     | 105                        | 64                           | 10        |
| 071.202.17A* | 200                 | 29 / 32     | 131                        | 79                           | 10        |
| 071.202.18   | 250                 | 19 / 26     | 140                        | 85                           | 10        |
| 071.202.19   | 250                 | 24 / 29     | 140                        | 85                           | 10        |
| 071.202.20   | 250                 | 29 / 32     | 140                        | 85                           | 10        |
| 071.202.21A* | 300                 | 29 / 32     | 156                        | 87                           | 10        |
| 071.202.22 * | 500                 | 19 / 26     | 175                        | 105                          | 10        |
| 071.202.22A* | 500                 | 24 / 29     | 175                        | 105                          | 10        |
| 071.202.23   | 500                 | 29 / 32     | 175                        | 105                          | 10        |
| 071.202.25 * | 1000                | 24 / 29     | 220                        | 131                          | 10        |
| 071.202.26   | 1000                | 29 / 32     | 220                        | 131                          | 10        |
| 071.202.27 * | 1000                | 34 / 35     | 220                        | 131                          | 10        |
| 071.202.28   | 2000                | 29 / 32     | 280                        | 166                          | 6         |
| 071.202.29 * | 2000                | 34 / 35     | 280                        | 166                          | 6         |
| 071.202.30 * | 3000                | 45 / 40     | 310                        | 187                          | 1         |
| 071.202.31 * | 5000                | 45 / 40     | 365                        | 220                          | 1         |

\* Non DIN

## Flask Erlenmeyer with Joint.

These Flasks comes with Ground Joint manufactured as per ASTM E 1404 type 2 Class 1 requirement. The Flasks are printed in white colour enamel.

| Item Code   | Capacity ml | Sub Division ml | Graduation Range | Joint Size | Pcs/ Pack |
|-------------|-------------|-----------------|------------------|------------|-----------|
| 071.202.50  | 50          | 10              | 20 - 50          | 19 / 38    | 2         |
| 071.202.51  | 125         | 25              | 50 - 125         | 24 / 40    | 2         |
| 071.202.52  | 250         | 25              | 50 - 225         | 24 / 40    | 2         |
| 071.202.52A | 300         | 25              | 100 - 300        | 24 / 40    | 2         |
| 071.202.53  | 500         | 50              | 100 - 500        | 24 / 40    | 2         |
| 071.202.54  | 1000        | 50              | 250 - 1000       | 24 / 40    | 1         |
| 071.202.55  | 2000        | 100             | 600 - 2000       | 24 / 40    | 1         |



ASTM



## Determination of Iodine with ground joint and stopper

| Item Code  | Nominal capacity ml | Joint Size | Min. Cup Capacity ml. | Pcs/ Pack |
|------------|---------------------|------------|-----------------------|-----------|
| 072.202.01 | 250                 | 24 / 29    | 20                    | 2         |
| 072.202.02 | 250                 | 29 / 32    | 20                    | 2         |
| 072.202.03 | 500                 | 24 / 29    | 20                    | 2         |
| 072.202.04 | 500                 | 29 / 32    | 20                    | 2         |





As per **ASTM E 133** standard. Intended to use in ASTM D 86, D 233, D 801 & D 802

| Item Code  | Nominal capacity ml | Dia mm | Height mm | Side Dia mm | Arm Lenght | Pk/ Size |
|------------|---------------------|--------|-----------|-------------|------------|----------|
| 073.205.01 | 125                 | 68     | 215       | 7           | 7          | 2        |

## Distillation Flasks with 19/26 Joint

|            |     |    |     |   |   |   |
|------------|-----|----|-----|---|---|---|
| 073.206.01 | 125 | 68 | 215 | 7 | 7 | 2 |
|------------|-----|----|-----|---|---|---|

ASTM

Distillation  
Flask



Filter  
Flask ISO

## Flask Filter with Glass Connector.

These Flasks are made from heavy wall which can withstand high vacuum. The flasks are printed the white colour enamel and is made as per ISO 6556 & USP Standards

| Item Code  | Nominal capacity ml | Pcs/ Pack |
|------------|---------------------|-----------|
| 074.202.01 | 100                 | 2         |
| 074.202.02 | 250                 | 2         |
| 074.202.03 | 500                 | 2         |
| 074.202.04 | 1000                | 2         |
| 074.202.05 | 2000                | 1         |

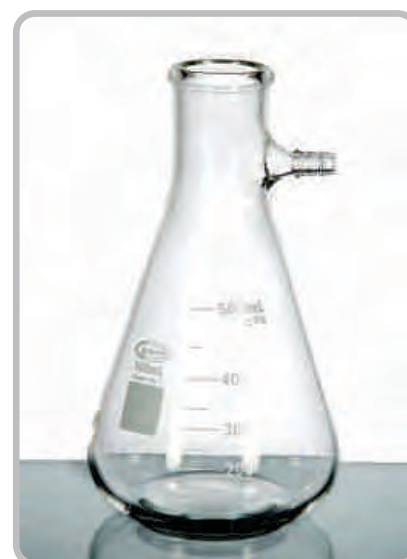
## Flask Filter with Glass Connector.

These Flasks are made from heavy wall which can withstand high vacuum. The flasks are printed the white colour enamel and is made as per ASTM E-1406, type 2 specifications.

| Item Code   | Capacity ml | Sub Division ml | Graduation Range | Pcs/ Pack |
|-------------|-------------|-----------------|------------------|-----------|
| 074.402.01  | 25          | 5               | 10 - 25          | 6         |
| 074.402.02  | 50          | 10              | 20 - 50          | 6         |
| 074.402.03  | 125         | 25              | 50 - 125         | 6         |
| 074.402.04  | 250         | 25              | 50 - 225         | 6         |
| 074.402.04A | 300         | 25              | 100 - 300        | 6         |
| 074.402.05  | 500         | 50              | 100 - 500        | 6         |
| 074.402.06  | 1000        | 50              | 250 - 1000       | 6         |
| 074.402.07  | 2000        | 100             | 600-2000         | 1         |
| 074.402.09  | 4000        | 250             | 1000-4000        | 1         |

Filter  
Flask ASTM

ASTM



# Flasks



Conical Flask with Screw Cap. The screw cap is made from Polypropelene which is Autoclavable and comes with PTFE Liner.

| Item Code  | Capacity | Thread GL | Dim mm | Pcs/ Pack |
|------------|----------|-----------|--------|-----------|
| 075.202.01 | 50       | 25        | 51     | 2         |
| 075.202.02 | 100      | 25        | 64     | 2         |
| 075.202.04 | 250      | 32        | 85     | 2         |
| 075.202.05 | 500      | 32        | 105    | 2         |
| 075.202.06 | 1000     | 32        | 131    | 2         |



**Conical Flask** with ground joint and hollow glass stopper

| Item Code  | Capacity | Dim mm  | Pcs/ Pack |
|------------|----------|---------|-----------|
| 076.202.01 | 100      | 29 / 32 | 2         |
| 076.202.02 | 250      | 29 / 32 | 2         |
| 076.202.03 | 500      | 29 / 32 | 2         |
| 076.202.04 | 1000     | 29 / 32 | 2         |
| 076.202.05 | 2000     | 29 / 32 | 1         |

## Kjeldahl Flask

is suitable for determination of Nitrogen.  
**DIN 12360**

| Item Code   | Capacity | Dia mm | Height mm | Pcs/ Pack |
|-------------|----------|--------|-----------|-----------|
| 077.202.01  | 100      | 58     | 240       | 2         |
| 077.202.02* | 300      | 81     | 300       | 2         |
| 077.202.03  | 500      | 101    | 325       | 2         |
| 077.202.04* | 800      | 115    | 350       | 2         |

\* Non DIN





## Tubes & Vials

### Tubes



Culture Tubes, screw cap manufactured from  
ASTM - 438 TYPE 1 CLASS A BORO 3.3 GLASS

Used mainly for culture work comes with  
Polypropelene autoclavable screw cap with insert of PTFE  
lined rubber disc

These tubes come in two forms, one is  
round bottom and another is flat bottom

The enamel used for printing on this is white



### Round Bottom Tube

| Item Code  | O.D.x Lenght<br>(mm) | Bottom<br>Type | Pcs/<br>Pack |
|------------|----------------------|----------------|--------------|
| 082.204.01 | 12 x 100             | Round          | 100          |
| 082.204.02 | 16 x 100             | Round          | 100          |
| 082.204.03 | 16 x 125             | Round          | 100          |
| 082.204.04 | 16 x 160             | Round          | 100          |
| 082.204.05 | 18 x 180             | Round          | 100          |
| 082.204.06 | 20 x 100             | Round          | 100          |
| 082.204.07 | 20 x 200             | Round          | 100          |
| 082.204.08 | 22 x 200             | Round          | 100          |
| 082.202.05 | 25 x 100             | Round          | 100          |
| 082.202.07 | 25 x 200             | Round          | 50           |

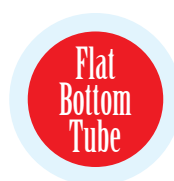


## Tubes & Vials



| Item Code  | Capacity | O.D.x<br>Length<br>(mm) | Bottom<br>Type | Pcs/<br>Pack |
|------------|----------|-------------------------|----------------|--------------|
| 083.202.01 | 5        | 18 x 45                 | Flat           | 100          |
| 083.202.02 | 10       | 25 x 57                 | Flat           | 100          |
| 083.202.03 | 30       | 25 x 95                 | Flat           | 100          |
| 083.202.04 | 40       | 25 x 145                | Flat           | 50           |

PS: Test Tubes in other sizes can be provided on request



### Conical Bottom Graduated

| Item Code  | Capacity<br>(ml) | Height x O.D.<br>(mm) | Pcs/<br>Pack |
|------------|------------------|-----------------------|--------------|
| 088.202.01 | 5                | 100 x 13              | 50           |
| 088.202.02 | 10               | 110 x 15              | 50           |
| 088.202.03 | 15               | 120 x 17              | 50           |
| 088.202.04 | 25               | 125 x 22              | 50           |
| 088.202.05 | 50               | 125 x 28              | 50           |

### Conical Bottom Plain

| Item Code  | Capacity<br>(ml) | Height x O.D.<br>(mm) | Pcs/<br>Pack |
|------------|------------------|-----------------------|--------------|
| 089.202.02 | 5                | 100 x 13              | 50           |
| 089.202.03 | 10               | 110 x 15              | 50           |
| 089.202.05 | 15               | 120 x 17              | 50           |
| 089.202.06 | 25               | 125 x 22              | 50           |
| 089.202.07 | 50               | 125 x 28              | 50           |





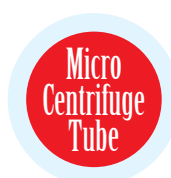
## Tubes & Vials

### Micro Centrifuge Tube

these Micro Centrifuge Tubes, moulded in Polypropylene, have built in plugs which snap fit and make these tubes leakproof. These tubes can be used for transmitting samples for micro analysis.

Material : Polypropylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 130.303.01 | 0.5 ml   | 1000     |
| 130.303.02 | 1.5 ml   | 1000     |



### Float Rack

moulded in Polypropylene is quite compact, autoclavable and can hold 16 micro centrifuge tubes for incubation in water baths. Easy to load, these are essential in microbiology & immunology labs. The surface of the rack has raised alpha - numeric index for easy identification and has a ventral rod handle for convenient lifting.

Material : Polypropylene

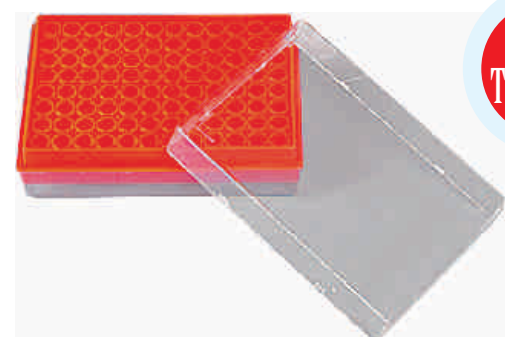
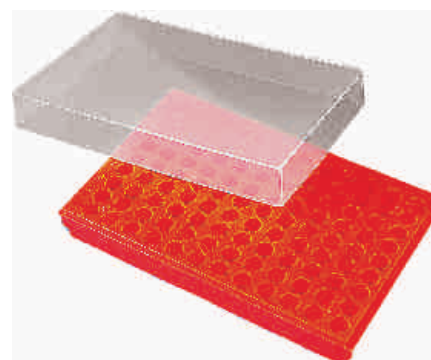
| Cat. No.   | Capacity            | Pcs/Pack |
|------------|---------------------|----------|
| 131.303.01 | 16 MCT'S of 1.5 ml. | 12       |

### MCT Twin Rack

provides this Twin Purpose Rack for both 0.5 ml & 1.5 ml. micro centrifuge tubes. Each side has 108 holes for 0.5 & 1.5 ml. MCT'S, respectively. The transparent top provides an excellent view as well as a protection cover for the tubes stored. Each face of the base has a unique alpha- numeric index for easy identification of the tube.

Material : Polypropylene

| Cat. No.   | Capacity                      | Pcs/Pack |
|------------|-------------------------------|----------|
| 132.303.01 | Rack for 0.5 ml & 1.5 ml MCTS | 4        |



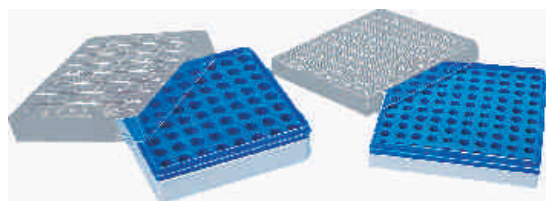
### PCR Tube Rack

this rack, as the name suggests, is used for keeping PCR Tubes. Top & base of this rack are made of tough & transparent polycarbonate while the middle portion is made of polypropylene. The tube holding spaces are uniformly placed so as to facilitate the use of multipipettes. A no. of racks can be stacked together to save shelf space.

Material : Polycarbonate / Polypropylene

| Cat. No.   | Capacity                        | Pcs/Pack |
|------------|---------------------------------|----------|
| 133.303.01 | Rack for 96 OCR Tubes of 0.2 ml | 4        |





**MCT  
Box**

## MCT Box

are moulded in polycarbonate and are therefore strong as well as autoclavable. One size can hold 64 MCT'S of 1.5 ml. & the other can hold 100 MCT's of 0.5 ml.. These boxes are designed to work at temperatures ranging from -190°C to +121°C. The transparent cover provides a good view of the contents inside & is numbered for better inventory control.

Material : Polycarbonate

| Cat. No.   | Capacity                     | Pcs/Pack |
|------------|------------------------------|----------|
| 134.303.01 | Rack for 100 MCT's of 0.5 ml | 4        |
| 134.303.02 | Rack for 64 MCT's of 1.5 ml  | 4        |

## Centrifuge Tube Conical Bottom

centrifuge tube with conical bottom are available in two sizes i.e. 15 ml. & 50 ml. Moulded in Polypropylene, these tubes are clear, strong & safe. These autoclavable tubes are provided with printed graduations on the outer surface. The built in seal ring in the cap makes these tubes absolutely leak proof. These tubes can withstand forces up to 7500x G & 12000xG for 15 ml. & 50 ml. tubes respectively. These tubes are available sterilized.

Material : Polypropylene

| Cat. No.   | Capacity       | Pcs/Pack |
|------------|----------------|----------|
| 135.303.01 | 15 ml          | 100      |
| 135.303.02 | 50 ml          | 100      |
| 135.303.03 | 15 ml. Sterile | 100      |
| 135.303.04 | 50 ml. Sterile | 100      |

**Centrifuge  
Tube  
Conical**



## Centrifuge Tube Round Bottom

centrifuge tube with round bottom are moulded in Polypropylene & Polycarbonate These tubes have excellent clarity and are strong enough to be used up to 50,000x G. These tubes can be autoclaved, however, repeated autoclaving in PC tubes reduces their mechanical

Material : Polypropylene / Polycarbonate

| Cat. No.   | Capacity            | Pcs/Pack |
|------------|---------------------|----------|
| 136.303.01 | 16 ml. Tube PP.     | 50       |
| 136.303.02 | 50 ml. Tube PP.     | 50       |
| 136.303.03 | 16 ml. Tube PC.     | 50       |
| 136.303.04 | 50 ml. Tube PC.     | 50       |
| 136.303.05 | Cap for 16 ml. Tube | 100      |
| 136.303.06 | Cap for 50 ml. Tube | 100      |

**Centrifuge  
Tube  
Round**



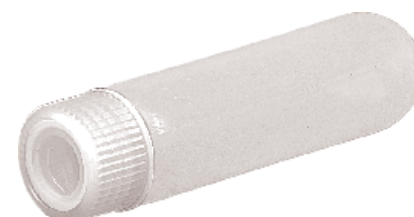
## OAK Ridge Centrifuge Tubes

made of Polypropylene, have excellent contact clarity and can be used up to 50,000xG. The screw cap is fitted with silicon O-Ring making it totally leakproof. These tubes should not be used below 4°C.

Material : Polypropylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 137.303.01 | 30 ml    | 12       |
| 137.303.02 | 50 ml    | 12       |
| 137.303.03 | 100 ml   | 12       |

**OAK Ridge  
Centrifuge  
Tube**





## Tubes & Vials

### Test Tube with Screw Cap

polypropylene tubes provide excellent option for RIA, Coagulation & Bacteriology etc. available with screw cap.

**Material :** Polypropylene

| Cat. No.   | Capacity                | Pcs/Pack |
|------------|-------------------------|----------|
| 142.303.01 | 16x 100 mm, Ext. thread | 500      |



### Storage Vial

as the name suggests, these vials are commonly used for storage of biological material, human & animal cells at temperature as low as -190°C. The Cap is provided with a built in seal ring making the vial leakproof. The base of the vial has longitudinal grooves which give it a non- twisting character when placed in a vial rack.

**Material :** Polyethylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 144.303.01 | 1.0 ml   | 500      |
| 144.303.02 | 2.0 ml   | 500      |
| 144.303.03 | 5.0 ml   | 500      |

### SV10 - SV5

polypropylene vials add to the existing range of Glassco storage vials. Available in 5 ml. & 10 ml. capacities, these vials have polypropylene cap with built in seal ring making it a leak proof vial. Just like others storage vials these are also used for the storage of biological material, animal & human cells etc.

**Material :** Polypropylene

| Cat. No.   | Capacity   | Pcs/Pack |
|------------|------------|----------|
| 147.303.01 | SV - 10 ml | 500      |
| 147.303.02 | SV - 5 ml  | 500      |





**Scintillation Vial**

these unbreakable vials, moulded in Polyethylene, are fitted with leakproof screw caps. These vials can be used with standard counting equipment for liquid scintillation system and are excellent for low activity count.

**Material :** High Density Polyethylene

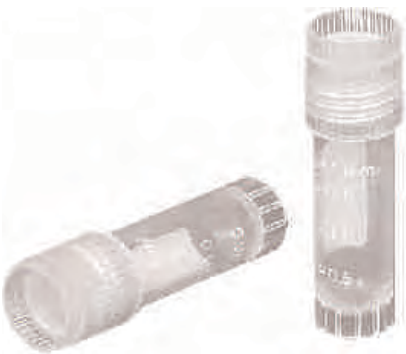
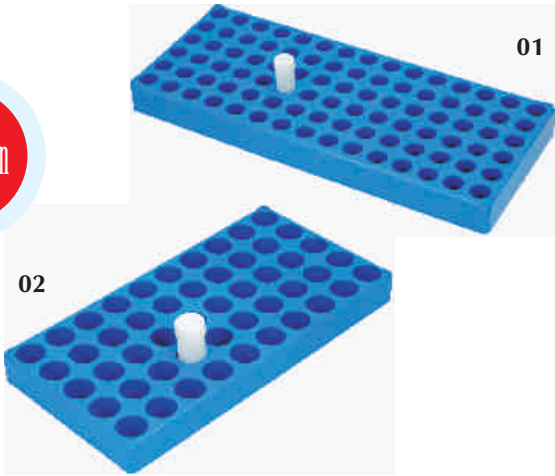
| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 148.303.01 | 8 ml     | 100      |
| 148.303.02 | 20 ml    | 100      |

**Rack for Scintillation Vial**

moulded in Polypropylene, are autoclavable & corrosion resistant. There is an individual rack for both 8 ml. & 20 ml. vials. These rugged & stable racks can hold scintillation vials for convenient storage, handling & sample preparations.

**Material :** polypropylene

| Cat. No.   | Capacity                   | Pcs/Pack |
|------------|----------------------------|----------|
| 149.303.01 | Rack for 90 vials of 8 ml  | 2        |
| 149.303.02 | Rack for 50 vials of 20 ml | 2        |



**Cryo Vial**

are normally used for storage of Biological material, human & animal cells at temperature as low as -190°C. These sterilized tubes are provided with white, prominent graduations and a long marking area for sample identification. The cap of these vials is provided with a seal ring inside to make it completely leakproof. The longitudinal grooves in the base give a non-twisting feature to these vials when placed in a cryo rack.

**Material :** Polypropylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 151.303.01 | 1.0 ml   | 1000     |
| 151.303.02 | 1.8 ml   | 1000     |
| 151.303.03 | 4.5 ml   | 500      |

**Cryo Coders**

available in different colours can easily fit into the cap of Cryo vials for colour identification of different samples.

**Material :** Polystyrene

| Cat. No.   | Type        | Pcs/Pack |
|------------|-------------|----------|
| 152.303.01 | Cryo Coders | 100      |





## Tubes & Vials



**Cryo Rack**

### Cryo Rack

moulded in Polycarbonate making it tough, durable & autoclavable. This handy rack can hold 50 vials at a time. The unique feature of this rack is that vials can be unscrewed without actually picking them up as the vial will lock in every well and hence will not twist. This rack is provided with four anti skid rubbers & each well is identified with an alpha- numeric index.

**Material :** Polycarbonate

| Cat. No.   | Type                                       | Pcs/Pack |
|------------|--|----------|
| 153.303.01 | 50 places for 1, 1.8 and 4.5 ml Cryo vials | 2        |

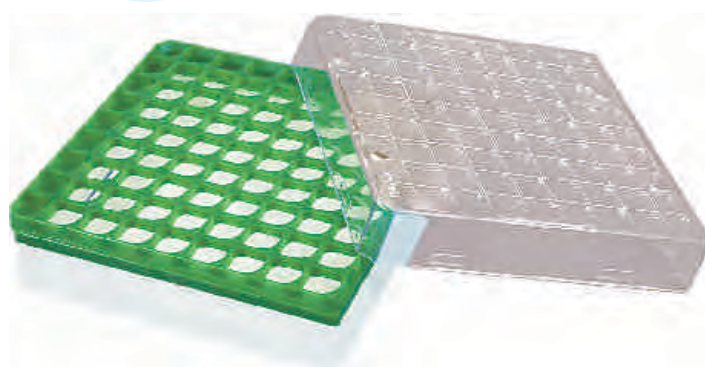
### Cryo Box (PC)

moulded in Polycarbonate making it extra strong and autoclavable. These can accommodate Cryo Vials of up to 4.5 ml. capacity and are designed to be used at temperatures ranging from -190°C to +121°C. The transparent cover of the box gives a good view of the contents inside and is numbered for better inventory control.

**Material :** Polycarbonate

| Cat. No.   | Capacity                                   | Pcs/Pack |
|------------|--|----------|
| 154.303.01 | 50 Places for 1 ml. or 1.8 ml. Cryo Vials  | 4        |
| 154.303.02 | 81 Places for 1 ml. or 1.8 ml. Cryo Vials  | 4        |
| 154.303.03 | 81 Places for 4.5 ml. Cryo Vials           | 4        |
| 154.303.04 | 100 Places for 1 ml. or 1.8 ml. Cryo Vials | 4        |

**Cryo Box  
PC**



**Cryo Box  
PP**

### Cryo Box (PP)

moulded in polypropylene, the top of the box is attached to the bottom through well designed built in hinges. The bottom has built-in spaces to hold vials up to 2 ml. capacity. Available in two different sizes, these autoclavable boxes bear alpha numeric index for easy identification of different vials placed inside.

**Material :** Polypropylene

| Cat. No.   | Capacity                                   | Pcs/Pack |
|------------|--|----------|
| 155.303.01 | 81 Places for 1 ml. or 1.8 ml. Cryo Vials  | 4        |
| 155.303.02 | 100 Places for 1 ml. or 1.8 ml. Cryo Vials | 4        |





## Round Bottom Graduated

| Item Code  | Capacity (ml) | Height x O.D. (mm) | Pcs/ Pack |
|------------|---------------|--------------------|-----------|
| 094.202.01 | 12            | 16 x 110           | 100       |
| 094.202.02 | 30            | 24 x 110           | 100       |
| 094.202.03 | 40            | 28 x 110           | 100       |
| 094.202.04 | 50            | 30 x 110           | 100       |
| 094.202.05 | 100           | 45 x 110           | 100       |
| 094.202.07 | 200           | 55 x 116           | 100       |

## with joint & stopper Graduated

| Item Code  | Size (mm) | Capacity (ml) | Stopper size | Pcs/ Pack |
|------------|-----------|---------------|--------------|-----------|
| 095.202.01 | 100 x 12  | 5             | 10 / 19      | 100       |
| 095.202.02 | 125 x 16  | 10            | 12 / 21      | 100       |
| 095.202.03 | 150 x 22  | 25            | 19 / 26      | 100       |
| 095.202.04 | 200 x 25  | 50            | 19 / 26      | 100       |



## with Interchangeable Stopper Plain

| Item Code  | Height x O.D. (mm) | Stopper Size | Pcs/ Pack |
|------------|--------------------|--------------|-----------|
| 096.202.01 | 100 x 12           | 10 / 19      | 100       |
| 096.202.02 | 125 x 15           | 12 / 21      | 100       |
| 096.202.03 | 150 x 18           | 14 / 23      | 100       |
| 096.202.04 | 150 x 25           | 19 / 26      | 100       |
| 096.202.05 | 200 x 25           | 19 / 26      | 100       |
| 096.202.06 | 200 x 32           | 24 / 29      | 100       |
| 096.202.07 | 200 x 38           | 24 / 29      | 100       |



## Tubes & Vials

Manufactured from ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS. These tubes come with uniform wall thickness for maximum heat transfer and chemical resistance

**EN ISO-4142**

| Item Code  | Approx. O.Dx Height | Thickness | Pcs/ Pack |
|------------|---------------------|-----------|-----------|
| 097.202.01 | 10 x 75             | 1.0       | 100       |
| 097.202.02 | 12 x 75             | 1.0       | 100       |
| 097.202.03 | 12 x 100            | 1.0       | 100       |
| 097.202.04 | 15 x 125            | 1.2       | 100       |
| 097.203.05 | 15 X 150            | 1.2       | 100       |
| 097.202.05 | 18 x 150            | 1.2       | 100       |
| 097.203.06 | 20 X 150            | 1.2       | 100       |
| 097.202.06 | 25 x 150            | 1.2       | 100       |
| 097.202.07 | 25 x 200            | 1.2       | 100       |

Test Tube  
Re-usable



Test Tube

Manufactured BORO 6.1 GLASS. These tubes come with uniform wall thickness for maximum heat transfer and chemical resistance, EN ISO-4142

| Item Code  | Approx. O.Dx Height | Thickness | Pcs/ Pack |
|------------|---------------------|-----------|-----------|
| 099.202.01 | 10 x 75             | 1.0       | 100       |
| 099.203.02 | 12 x 75             | 1.0       | 100       |
| 099.202.02 | 12 x 100            | 1.0       | 100       |
| 099.202.03 | 15 x 125            | 1.0       | 100       |
| 099.202.04 | 15 X 150            | 1.0       | 100       |
| 099.202.05 | 18 x 150            | 1.0       | 100       |
| 099.203.06 | 20 X 150            | 1.0       | 100       |
| 099.202.06 | 25 x 150            | 1.0       | 100       |
| 099.203.07 | 25 x 200            | 1.0       | 100       |

Closure  
Tube



**Made of Polypropylene Autoclavable which is**

| Item Code  | Size for tube | Pcs/ Pack |
|------------|---------------|-----------|
| 100.202.01 | 12mm          | 100       |
| 100.202.02 | 15mm          | 100       |
| 100.202.03 | 18mm          | 100       |
| 100.202.04 | 20mm          | 100       |
| 100.202.05 | 25mm          | 100       |

ASTM



Brush  
Test Tube

**Brush, Test Tube**

| Cat. No.   | Type            | Material | Pcs/Pack |
|------------|-----------------|----------|----------|
| 593.303.02 | Test Tube Brush | Nylon    | 50       |



# Tube Stands

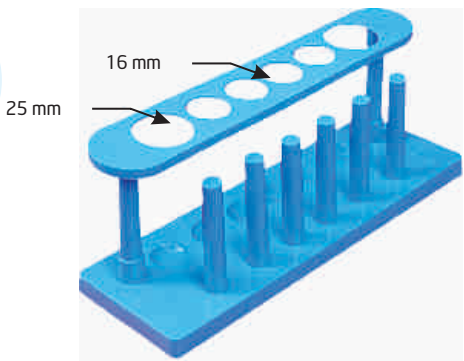


## Test Tube Stand

this autoclavable stand is perhaps the most commonly used Test Tube Stand in various laboratories. For better visibility, this 6 place rack is end supported by 2 columns. The top plate has 2 holes for holding 25 mm dia test tubes, four holes to hold 16 mm dia tubes where as the base has corresponding hemispherical wells. It also has six vertical pins for drying tubes.

**Material :** Polypropylene

| Cat. No.   | Size                               | Pcs/Pack |
|------------|------------------------------------|----------|
| 161.303.01 | 16 mm. & 25 mm $\varnothing$ Tubes | 12       |
| 161.303.02 | 25 mm. Tubes                       | 12       |



## Test Tube Stand (Round)

a handy, little, space saver, this circular twelve place Polypropylene Test Tube Stand has four 25 mm. dia holes & eight 19 mm dia holes in its top plate. The base has matching hemispherical wells & 16 vertical pins for drying tubes surrounded by a trough to catch drippings. This autoclavable rack can be easily disassembled for cleaning purpose.

**Material :** Polypropylene

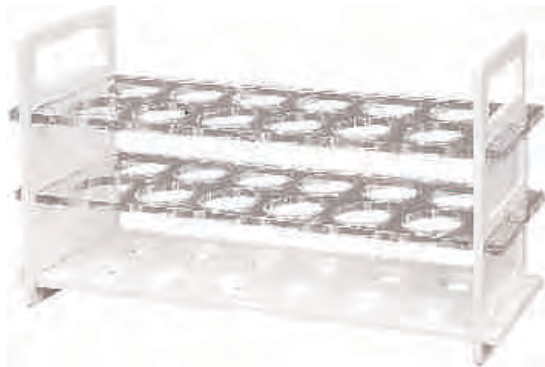
| Cat. No.   | Size                  | Pcs/Pack |
|------------|-----------------------|----------|
| 162.303.01 | 19 mm. & 25 mm. Tubes | 2        |

## Test Tube Stand (3 TIER)

these ingenious racks with a 3-tier design provide clear view of the tube contents & convenient insertion & removal of tubes. The PC rack has transparent upper & middle plates where as in PP racks, every part is coloured & opaque. These autoclavable Racks can withstand sub- freezing temperatures.

**Material :** Polypropylene

| Cat. No.   | Size/Capacity    | Pcs/Pack |
|------------|------------------|----------|
| 163.303.01 | 13 mm x 31 Tubes | 2        |
| 163.303.02 | 16 mm x 31 Tubes | 2        |
| 163.303.03 | 20 mm x 20 Tubes | 2        |
| 163.303.04 | 25 mm x 12 Tubes | 2        |
| 163.303.05 | 25 mm x 18 Tubes | 2        |
| 163.303.06 | 32 mm x 12 Tubes | 2        |
| 163.303.07 | 25 mm x 36 Tubes | 2        |
| 163.303.08 | 13 mm x 18 Tubes | 4        |
| 163.303.09 | 15 mm x 18 Tubes | 4        |
| 163.303.10 | 18 mm x 12 Tubes | 4        |
| 163.303.11 | 13 mm x 62 Tubes | 2        |
| 163.303.12 | 16 mm x 62 Tubes | 2        |
| 163.303.13 | 20 mm x 40 Tubes | 2        |
| 163.303.14 | 13 mm x 48 Tubes | 2        |
| 163.303.15 | 13 mm x 72 Tubes | 2        |



**Material :** Polycarbonate

| Cat. No.   | Size/Capacity    | Pcs/Pack |
|------------|------------------|----------|
| 164.303.01 | 13 mm x 31 Tubes | 2        |
| 164.303.02 | 16 mm x 31 Tubes | 2        |
| 164.303.03 | 20 mm x 20 Tubes | 2        |
| 164.303.04 | 25 mm x 12 Tubes | 2        |
| 164.303.05 | 13 mm x 62 Tubes | 2        |
| 164.303.06 | 16 mm x 62 Tubes | 2        |
| 164.303.07 | 20 mm x 40 Tubes | 2        |
| 164.303.08 | 25 mm x 24 Tubes | 2        |
| 164.303.09 | 25 mm x 18 Tubes | 2        |
| 164.303.10 | 25 mm x 36 Tubes | 2        |
| 164.303.11 | 32 mm x 12 Tubes | 2        |





## Tube Stands

### Rack For Micro Centrifuge Tube

moulded in Polycarbonate, this autoclavable rack is made for holding twenty four 1.5 ml. micro centrifuge tubes. This rack has a unique stacking feature which prevents movement in any direction. The holes are numbered & lettered for easy identification.

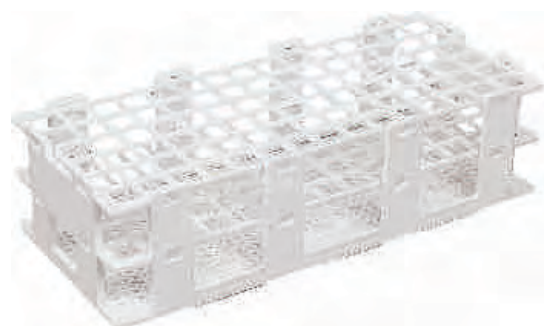
**Material :** Polycarbonate

| Cat. No.   | Quantity                                      | Pcs/Pack |
|------------|---|----------|
| 165.303.01 | 24 Tubes                                      | 4        |
| 165.303.02 | 48 Tubes                                      | 4        |
| 165.303.03 | 100 Places for 1.5 ml (Folding) Polypropylene | 2        |

Micro  
Centrifuge  
Tube Rack



Test Tube  
Stand  
Wire Pattern



### Test Tube Stand (Wire Pattern)

an economical substitute for wire racks, here are these submersible, autoclavable racks which are stackable when empty. These are available in different colours and are made of a special blend of Polypropylene that makes it sink in a water bath and maintain their stability even in agitated water. These space saving racks can easily be disassembled for cleaning purpose. The base is in the form of a grid with square openings and has fold up sides and end bars that lock in to rack tops.

**Material :** Polypropylene

| Cat. No.   | Size/Capacity     | Pcs/Pack |
|------------|-------------------|----------|
| 166.303.01 | 13 mm. x 90 Tubes | 6        |
| 166.303.02 | 16 mm. x 60 Tubes | 6        |
| 166.303.03 | 20 mm. x 40 Tubes | 6        |
| 166.303.04 | 25 mm. x 24 Tubes | 6        |
| 166.303.05 | 30 mm. x 21 Tubes | 6        |

### Test Tube Baskets

are made of Polypropylene. These autoclavable, unbreakable and non- corrosive Baskets are ideal for rinsing & draining glassware. These are also useful for storage of test tubes or culture tubes during sterilization or incubation.

**Material :** Polypropylene

| Cat. No.   | Size               | Pcs/Pack |
|------------|--------------------|----------|
| 167.303.01 | 140 x 120 x 110 mm | 6        |
| 167.303.02 | 160 x 160 x 160 mm | 6        |
| 167.303.03 | 400 x 400 x 100 mm | 6        |

Test Tube  
Basket



# Your One Stop for ISO / USP / ASTM Standard Glassware



A GLASS APART

- All Volumetric Glassware comes in two forms Serialized and Un-serialized Glassware.
- Tolerance of ASTM are similar to USP tolerances which is more tighter than ISO standards.
- Wide range of Volumetric Flasks from Narrow Mouth to Wide Mouth Heavy Wall, these are supplied in three kind of stoppers Polyethylene, PTFE and Penny head.
- Measuring Cylinders come in two forms (TC) "TO CONTAIN " and (TD) "TO DELIVERY".
- Graduated pipettes comes in two forms Mohr and Serological.
- All information printed on the product such as Volume, Accuracy, ASTM STANDARD in High Quality White Ceramic Print.

*New*

ASTM



A collection of high-precision glass volumetric labware, including graduated cylinders and volumetric flasks, arranged on a reflective surface. The glassware is filled with liquids of various colors (orange, red, blue) and features blue and black markings and stopcocks. A red circular logo with white text is overlaid on the left side.

# Volumetric Labware



## Volumetric Glassware

All volumetric glassware requires very high precision and accuracy which requires controlled conditions for calibrating volumetric glassware go through automatic calibration machines which is state of the art technology imported from germany. Glassco's Calibration Laboratory has undertaken accreditation for its system for calibration and testing as per ISO 17025:2005.

Glassco's Calibration Laboratory is NABL approved. NABL has a MRA under the Asia Pacific Laboratory Accreditation Cooperation (APLAC) and the International Laboratory Accreditation Cooperation (ILAC), which means the calibration provided to customers for volumetric ware is acceptable in calibration laboratories worldwide.

The calibrations performed by Glassco calibration laboratory are essential done under ISO 17025:2005

## NABL Certificate



Please see list of Accreditation Bodies Worldwide from Page 148-151





### TYPES OF CALIBRATION & HOW TO USE

**Burettes and pipettes** which is calibrated to deliver TD, EX which means the delivered quantity of the liquid corresponds to the capacity indicated on the instrument.

#### Burettes

These are calibrated "to deliver". Fill the burette a bit higher than the zero mark at the top. Check for trapped air bubbles, tap the burettes lightly to remove these; drain the solution once carefully to level of zero mark. Fill more solution up if the meniscus has gone below the zero mark. Drain the solution to the exact zero level. Wipe off the drops at the tip of the burette. Open the stopcock very slowly and start the titration. Do not touch the tip to the container wall you use. When the color begins to change, stop the titration and wait for 30 seconds as the waiting time of Class "AS" burettes. Check the meniscus for changes and add little volume to get complete titration.

#### Pipettes

These are calibrated "to deliver". Fill the liquid little above the volume mark. Wipe off the tip and wet area. Hold the pipette at the eye level and place the tip of the pipette to the wall of a vessel with a slight angle between contact point. Discharge the excess volume until meniscus reaches the calibration mark of the pipette. To use the pipette volume, place the tip to the wall of the vessel with a slight angle. Pay attention to clear the pipette completely. When the level of the liquid reaches the tip of the pipette, you have to wait a little as the waiting time (if the pipette is Class "AS") for say 5 seconds. When the waiting time is over, wipe off the pipette tip by pulling it upwards along the wall of the vessel. If there is still any residual liquid left in the tip, leave it as it is.

**Flasks and cylinders** is calibrated to contain TC, IN which means the contained quantity of the liquid corresponds to the capacity indicated on the instrument.

#### Volumetric flasks

These are calibrated "to contain". These are very precisely calibrated. Fill the volumetric flask with distilled water with a funnel to ensure that water is discharged below the meniscus line. Fill more distilled water until it reaches a bit below of the calibration ring mark. Add some more water in small volumes so that the meniscus will be exactly at the same level of the ring mark. To make accurate standard solution put precise weight of the substance into the flask. Shake the flask with stopper on.

#### Measuring Cylinders

These are calibrated "to contain" and graduated to show different levels. Cylinders are mainly used for the exact measurement of liquids. First fill the liquid carefully, so that meniscus level will reach the desired volume mark. Add the precise weight of the substance and dissolve the substance by shaking the measuring cylinder. In ASTM standards cylinders are now calibrated "to deliver" (TD), which has been recently introduced in Cylinder section.

**Results of calibration are guaranteed for precision as per the DIN, ISO, USP & ASTM standards.**





# H LG



## BATCH CERTIFICATE

01.10



## Scan For Certificates




### Conformity...

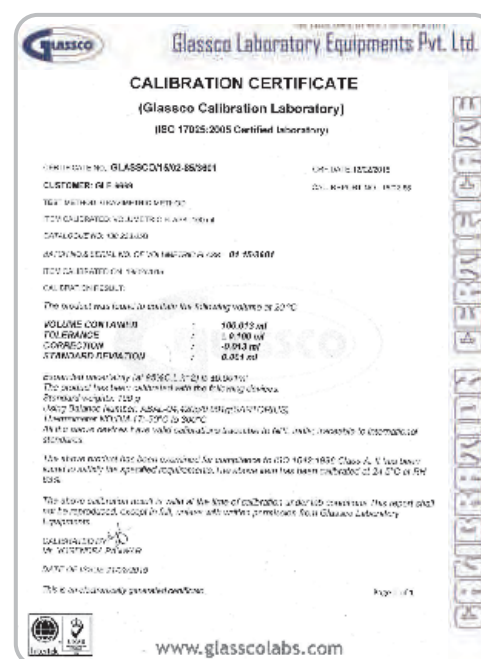
These flasks come with a certificate on which individual serial number, mean value, standard deviation and measured uncertainty is given along with the batch number and serial number like 01.10 (Month and year of manufacturing) 505 (serial number) **01.10 505**. This comes in a pack of one and each flask is having a certificate with it in the box you can also download it from [www.glasscolabs.com](http://www.glasscolabs.com) and by scanning the QR Code from the label of the box.



- Measuring Pipettes
- Volumetric Pipettes
- Measuring Cylinder
- Volumetric Flasks

|                                 |   |   |               |
|---------------------------------|---|---|---------------|
| www.glassrolabs.com             |   |  |               |
| <b>VOLUMETRIC FLASK CLASS A</b> |   |   |               |
| CATALOGUE NO                    | : | 130.202.03  | ISO 9001:2008 |
| NOMINAL VOLUME                  | : | 25.00 ml  |               |
| TOLERANCE                       | : | +0.040 ml   |               |
| COMPLIANCE                      | : | ISO1042:1998  |               |
| BATCH NO                        | : | 01.15   |               |
| MEAN VOLUME                     | : |   |               |
| CONTAINED                       | : | 24.992 ml   |               |
| STANDARD DEVIATION              | : | 0.007 ml  |               |
| TESTING DEVICE NAME             | : | SARTORIUS   |               |
| BALANCE                         | : | ABAL-10.420g/0.001g   |               |
| THERMOMETER                     | : | DM-18;-50 to 300  |               |
|                                 | : | DEG C/0.1DEG C  |               |
| OPERATOR                        | : | RINDU   |               |
| DATE OF ISSUE                   | : | 09.01.15  |               |

**BATCH TEST CERTIFICATE**  
 Batch tested in 17025:2005 certified laboratory



DEPARTMENT OF THE ARMY



## Volumetric Labware

### USP INDIVIDUAL CERTIFICATE

GLASSCO has recently launched its USP grade (UNITED STATES PHARMACOPIA) standard flasks with also comes with a certificate on which individual serial number, mean value, standard deviation and measured uncertainty is given along with the batch number and serial number like 01.10 (Month and year of manufacturing) 605 (serial number). This comes in a pack of one and comes along with the flask in the box you can also download it from [www.glasscolabs.com](http://www.glasscolabs.com) and by scanning the QR Code from the label of the box.

**GLASSCO**  
Glassco Laboratory Equipments Pvt. Ltd.

**CALIBRATION CERTIFICATE**  
(Glassco Calibration Laboratory)  
(ISO 17025:2005 Certified Laboratory)  
(USP STANDARD)

CERTIFICATE NO: GLASSCO/11/02-107/101  
CUSTOMER: SAMPLE  
TEST METHOD: GRAVIMETRIC METHOD  
ITEM CALIBRATED: VOLUMETRIC FLASK: 50 ml  
CATALOGUE NO: 130.225.04  
BATCH NO. & SERIAL NO. OF VOLUMETRIC FLASK: 11.10/101  
ITEM CALIBRATED ON: 15/02/2011

**CALIBRATION RESULT:**  
The product was found to contain the following volume at 20°C:  
VOLUME CONTAINED: 50.024 ml  
TOLERANCE: ±0.060 ml  
CORRECTION: -0.024 ml  
STANDARD DEVIATION: 0.001 ml  
Expanded uncertainty (at 95% C.L. k=2) is ±0.001ml

The product has been calibrated with the following devices:  
Standard weights: 50g  
Using Balance Number: ABAL-Q3 430g/0.001g (SARTORIUS)  
Thermometer No.: DM-05 -50°C TO 150°C

All the above devices have valid calibrations traceable to NPL India; traceable to international standards.

The above product has been examined for compliance to DIN12864/ISO1042 Class-A. It has been found to satisfy the specified requirements. The above item has been calibrated at 21.5°C at RH 68%.

The above calibration result is valid at the time of calibration under lab conditions. This report shall not be reproduced, except in full, unless with written permission from Glassco Laboratory Equipments.

CALIBRATED BY: Mr. YOGENDRA PANWAR  
DATE OF ISSUE: 15/02/2011

APPROVED AND ISSUED BY:  
MANAGER OR  
NAME: Mr. GAGAN BAGGA

Page 1 of 1

[www.glasscolabs.com](http://www.glasscolabs.com)

**GLASSCO**  
Glassco Laboratory Equipments Pvt. Ltd.

**CALIBRATION CERTIFICATE**  
(Glassco Calibration Laboratory)

CERTIFICATE NO: GLASSCO/11/02-107/101  
CUSTOMER: SAMPLE  
TEST METHOD: GRAVIMETRIC METHOD  
ITEM CALIBRATED: VOLUMETRIC FLASK: 50 ml  
CATALOGUE NO: 130.225.04  
BATCH NO. & SERIAL NO. OF VOLUMETRIC FLASK: 11.10/101  
ITEM CALIBRATED ON: 15/02/2011

**CALIBRATION RESULT:**  
The product was found to contain the following volume at 20°C:  
VOLUME CONTAINED: 50.024 ml  
TOLERANCE: ±0.060 ml  
CORRECTION: -0.024 ml  
STANDARD DEVIATION: 0.001 ml  
Expanded uncertainty (at 95% C.L. k=2) is ±0.001ml

The product has been calibrated with the following devices:  
Standard weights: 50g  
Using Balance Number: ABAL-Q3 430g/0.001g (SARTORIUS)  
Thermometer No.: DM-05 -50°C TO 150°C

All the above devices have valid calibrations traceable to NPL India; traceable to international standards.

The above product has been examined for compliance to DIN12864/ISO1042 Class-A. It has been found to satisfy the specified requirements. The above item has been calibrated at 21.5°C at RH 68%.

The above calibration result is valid at the time of calibration under lab conditions. This report shall not be reproduced, except in full, unless with written permission from Glassco Laboratory Equipments.

CALIBRATED BY: Mr. YOGENDRA PANWAR  
DATE OF ISSUE: 15/02/2011

APPROVED AND ISSUED BY:  
MANAGER OR  
NAME: Mr. GAGAN BAGGA

Page 1 of 1

**MOODY**

### NABL Calibration Certificate

This certificate is issued by NABL calibration Laboratory at Glassco NABL by virtue of its collaboration with (APLAC) Asia Pacific Laboratory Accrediting Cooperation & (ILAC) International Laboratory Accreditation. NABL Calibration Certificate is internationally recognized. Both the instrument & Certificate shows the individual serial number & the Certificate no.

|                 |
|-----------------|
| <b>NABL</b>     |
| <b>C - 0610</b> |
| <b>505</b>      |
| <b>01.10</b>    |

\*For ordering all NABL certified glassware, please use middle number 405.





## Burettes



Glassco burettes are manufactured from ASTM E-438 TYPE 1 CLASS A BORO 3.3 heat resistant glass which meet DIN ISO 385 and USP standards. Each and every piece is calibrated to deliver (TD, EX) 20° C.

All A CLASS burettes are manufactured from precision bore tubing for accuracy. These Burettes also come with Schell batch tubes which helps in accurate reading of meniscus.

The burettes are calibrated on computer controlled machines to give the most accurate results and then are rechecked on the quality control centre.

The burettes made in A class come with conformity batch certificate and with individual work certificate.

All A Class burettes are printed in amber colour and have a waiting time of 30 seconds, the B CLASS burettes are printed in blue colour and have no waiting time.

The conformity Batch Certificates and individual work certificate are packed with each piece, however it can also be downloaded through our website [www.glasscolabs.com](http://www.glasscolabs.com)

The burettes come with 4 different kind of stopcocks Glass Stopcock, PTFE Needle Valve Stopcock, PTFE Key Stopcock and Detachable Stopcock.

**Burettes with glass stopcock** in Schellbach stripe printed in blue colour in compliance with DIN ISO 385 and USP standard

| Schellbach<br>Class AS with<br>Batch<br>Certificate<br>Cat No. | Schellbach<br>Class A with<br>Individual Work<br>Certificate<br>Cat No. | Cap. ml. | Division | Tolerance<br>( $\pm$ ml) | Pcs/<br>Pack |
|--|---|----------|----------|--------------------------|--------------|
| 110.202.01A  | 110.223.01  | 10ML     | 0.05     | 0.03                     | 1            |
| 110.202.02A  | 110.223.02  | 25ML     | 0.1      | 0.05                     | 1            |
| 110.202.03A  | 110.223.03  | 50ML     | 0.1      | 0.05                     | 1            |
| 110.202.04A  | 110.223.04  | 100ML    | 0.2      | 0.1                      | 1            |





## Burettes

**Burettes with glass stopcock** in clear glass printed in blue colour in compliance with **DIN ISO 385 and USP standard**

| Class AS with Batch Certificate Cat No. | Class A with Individual Work Certificate Cat No. |          |          |                       |           |
|---|--|----------|----------|-----------------------|-----------|
|   |  | Cap. ml. | Division | Tolerance ( $\pm$ ml) | Pcs/ Pack |
| 111.202.01                              | 111.223.01                                       | 10ML     | 0.05     | 0.03                  | 1         |
| 111.202.02                              | 111.223.02                                       | 25ML     | 0.1      | 0.05                  | 1         |
| 111.202.03                              | 111.223.03                                       | 50ML     | 0.1      | 0.05                  | 1         |
| 111.202.04                              | 111.223.04                                       | 100ML    | 0.2      | 0.1                   | 1         |

Burette with Glass Stopcock



Schellbach Burette with screw type Needle Valve



**Burettes with PTFE needle valve stopcock** in Schellbach stripe printed in blue colour in compliance with **DIN ISO 385 and USP standard**

| Schellbach Class AS with Batch Certificate Cat No. | Schellbach Class A with Individual Work Certificate Cat No. |          |          |                       |           |
|--|---|----------|----------|-----------------------|-----------|
|  |   | Cap. ml. | Division | Tolerance ( $\pm$ ml) | Pcs/ Pack |
| 112.202.01A  | 112.223.01A   | 10ML     | 0.05     | 0.03                  | 1         |
| 112.202.02A  | 112.223.02A   | 25ML     | 0.1      | 0.05                  | 1         |
| 112.202.03A  | 112.223.03A   | 50ML     | 0.1      | 0.05                  | 1         |
| 112.202.04A  | 112.223.03A   | 100ML    | 0.2      | 0.1                   | 1         |

Burette with screw type Needle Valve



**Burettes with PTFE needle valve stopcock** clear class printed in blue colour in compliance with **DIN ISO 385 and USP standards**

| Class AS with Batch Certificate Cat No. | Class A with Individual Work Certificate Cat No. |          |          |                       |           |
|---|--|----------|----------|-----------------------|-----------|
|   |  | Cap. ml. | Division | Tolerance ( $\pm$ ml) | Pcs/ Pack |
| 113.202.01                              | 113.223.01                                       | 10ML     | 0.05     | 0.03                  | 1         |
| 113.202.02                              | 113.223.02                                       | 25ML     | 0.1      | 0.05                  | 1         |
| 113.202.03                              | 113.223.03                                       | 50ML     | 0.1      | 0.05                  | 1         |
| 113.202.04                              | 113.223.04                                       | 100ML    | 0.2      | 0.1                   | 1         |



Burettes



Burettes with PTFE key stopcock in Schellbach stripe printed in blue colour to meet **DIN ISO 385 and USP standard**

| Schellbach Class AS with Batch Certificate Cat No. | Schell bach Class A with Individual Work Certificate Cat No. |          |          |                 |           |
|--|--|----------|----------|-----------------|-----------|
|  |  | Cap. ml. | Division | Tolerance (±ml) | Pcs/ Pack |
| 114.202.04A  | 114.223.04A  | 10ML     | 0.05     | 0.03            | 1         |
| 114.202.05A  | 114.223.05A  | 25ML     | 0.1      | 0.05            | 1         |
| 114.202.06A  | 114.223.06A  | 50ML     | 0.1      | 0.05            | 1         |
| 114.202.07A  | 114.223.06A  | 100ML    | 0.2      | 0.1             | 1         |

Burettes with PTFE key stopcock clear class printed in blue colour in compliance with **DIN ISO 385 and USP standards**

| Class AS with Batch Certificate Cat No. | Class A with Individual Work Certificate Cat No. |          |          |                 |           |
|---|--|----------|----------|-----------------|-----------|
|   |  | Cap. ml. | Division | Tolerance (±ml) | Pcs/ Pack |
| 115.202.01                              | 115.223.01                                       | 10ML     | 0.05     | 0.03            | 1         |
| 115.202.02                              | 115.223.02                                       | 25ML     | 0.1      | 0.05            | 1         |
| 115.202.03                              | 115.223.03                                       | 50ML     | 0.1      | 0.05            | 1         |
| 115.202.04                              | 115.223.04                                       | 100ML    | 0.2      | 0.1             | 1         |



Burettes with PTFE detachable stopcocks printed with blue colour in compliance with **DIN ISO 385 and USP standards**

| Schellbach Class AS with Batch Certificate Cat No. | Schellbach Class A with Individual Work Certificate Cat No. |          |          |                 |           |
|--|---|----------|----------|-----------------|-----------|
|  |   | Cap. ml. | Division | Tolerance (±ml) | Pcs/ Pack |
| 117.202.01A  | 117.223.01A   | 10ML     | 0.05     | 0.03            | 1         |
| 117.202.02A  | 117.223.02A   | 25ML     | 0.1      | 0.05            | 1         |
| 117.202.03A  | 117.223.03A   | 50ML     | 0.1      | 0.05            | 1         |





## Burettes

**Burettes with PTFE detachable stopcock** clear class printed in blue colour in compliance with DIN ISO 385 and USP standards

| Class AS with Batch Certificate Cat No. | Class A with Individual Work Certificate Cat No. |          |          |                       |          |
|---|--|----------|----------|-----------------------|----------|
|   |  | Cap. ml. | Division | Tolerance ( $\pm$ ml) | Pcs/Pack |
| 117.202.01                              | 117.223.01                                       | 10ML     | 0.05     | 0.03                  | 1        |
| 117.202.02                              | 117.223.02                                       | 25ML     | 0.1      | 0.05                  | 1        |
| 117.202.03                              | 117.223.03                                       | 50ML     | 0.1      | 0.05                  | 1        |

Burette with Stopcocks



**Burettes Class B with Amber Graduation, DIN ISO 385**

| With glass stopcock Cat No. | With PTFE needle valve stopcock Cat No. | With PTFE KEY STOPCOCK Cat No. | With detachable PTFE KEY STOPCOCK Cat No. | Cap. ml. | Division | Tolerance ( $\pm$ ml) | Pcs/Pack | (Economy model) With detachable PTFE KEY STOPCOCK Cat No. |          |                       |          |
|-----------------------------|---|--------------------------------|---|----------|----------|-----------------------|----------|---|----------|-----------------------|----------|
|                             |   |                                |   |          |          |                       |          | Cap. ml.  | Division | Tolerance ( $\pm$ ml) | Pcs/Pack |
| 110.224.01                  | 112.224.01                              | 114.224.01                     | 117.224.01                                | 10ML     | 0.05     | 0.05                  | 1        | 109.224.03  | 50ML     | 0.10                  | 1        |
| 110.224.02                  | 112.224.02                              | 114.224.02                     | 117.224.02                                | 25ML     | 0.10     | 0.10                  | 1        |   |          |                       |          |
| 110.224.03                  | 112.224.03                              | 114.224.03                     | 117.224.03                                | 50ML     | 0.10     | 0.10                  | 1        |   |          |                       |          |

Burette B Class with Stopcocks



Economy Model

### Burette

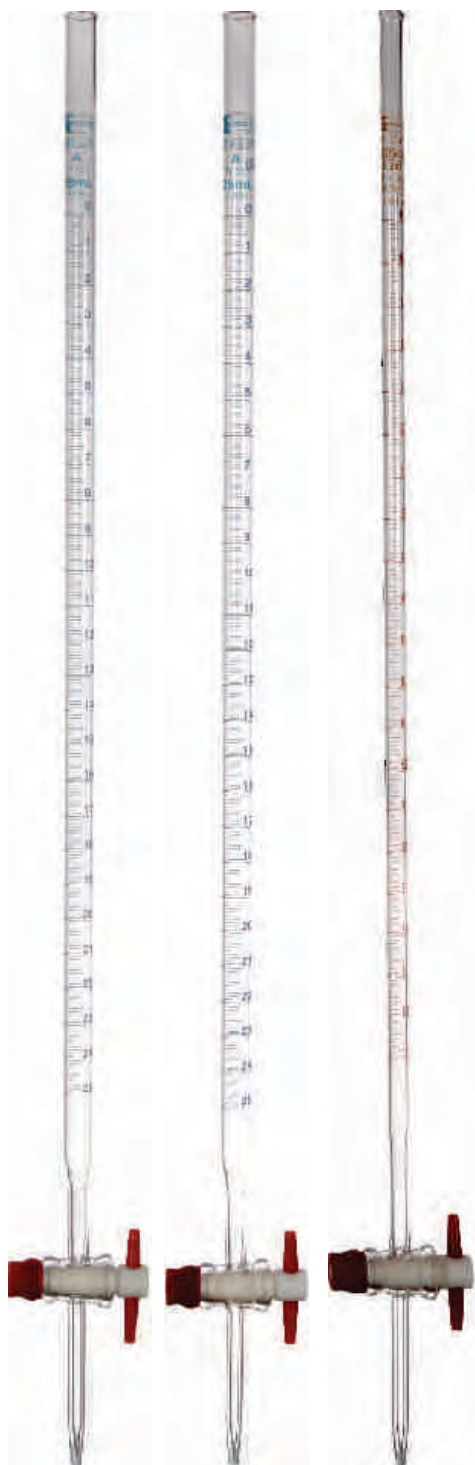
this Burette has a transparent acrylic body and a leakproof stopcock made fitted with a self lubricating PTFE plug. Each Burette is individually calibrated to give maximum accuracy. Acrylic body is unaffected by dilute mineral acids & bases except Hydrofluoric Acid & Ammonium Hydroxide. The pH range of 1-14 is ideal and can be used up to 5% wt/wt of acids or 30 % bases.

Material : Polymethyl Methacrylate / TPX

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 103.303.01 | 25 ml    | 10       |
| 103.303.02 | 50 ml    | 10       |
| 103.303.03 | 100 ml   | 10       |

Burette TPX





## Burette Serialized/Certified CLASS A, with PTFE Key Stopcock

All burettes are calibrated to meet ASTM E 287 Specifications. Each burette is individually serialized and supplied with certificate of identification and capacity, traceable to NIST standards. The burettes is printed in blue enamel.

| Catalogue No. | Capacity | Grad Interval (ml) | Tolerance ( $\pm$ ml) | Qty Per Pack |
|---------------|----------|--------------------|-----------------------|--------------|
| 115.451.01    | 10ml     | 0.05               | 0.02                  | 1            |
| 115.451.02    | 25ml     | 0.1                | 0.03                  | 1            |
| 115.451.03    | 50ml     | 0.1                | 0.05                  | 1            |
| 115.451.04    | 100 mL   | 0.2                | 0.1                   | 1            |

## Burette Unserialized Class A, With PTFE Key Stopcock

All burettes are calibrated to meet ASTM E 287 Specifications. All Burette are calibrated according to class A norms and accordingly a batch certificate is issued. The burettes is printed in blue enamel.

| Catalogue No. | Capacity | Grad Interval (ml) | tolerance ( $\pm$ ml) | Qty Per Pack |
|---------------|----------|--------------------|-----------------------|--------------|
| 115.452.01    | 10ml     | 0.05               | 0.02                  | 1            |
| 115.452.02    | 25ml     | 0.1                | 0.03                  | 1            |
| 115.452.03    | 50ml     | 0.1                | 0.05                  | 1            |
| 115.452.04    | 100ml    | 0.2                | 0.1                   | 1            |

## Burette Class B, with PTFE Key Stopcock, to meet ASTM E 287 Specifications.

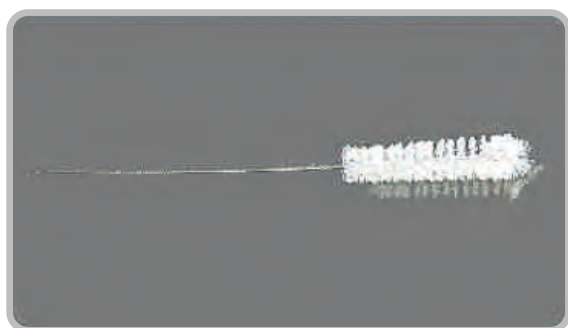
These Burettes are suitable for use in schools and institutional laboratories not requiring the accuracy of CLASS A. These are printed in amber colour enamel.

| Catalogue No. | Capacity | Grad Interval (ml) | Tolerance ( $\pm$ ml) | Qty Per Pack |
|---------------|----------|--------------------|-----------------------|--------------|
| 114.424.01    | 10ml     | 0.05               | 0.04                  | 1            |
| 114.424.02    | 25ml     | 0.1                | 0.06                  | 1            |
| 114.424.03    | 50ml     | 0.1                | 0.1                   | 1            |



## Brush, Burette

| Cat. No.   | Type          | Material | Pcs/Pack |
|------------|---------------|----------|----------|
| 593.303.07 | Burette Brush | Nylon    | 50       |





## Burette Clamps

### Fisher Clamp

are moulded in Polypropylene making it completely corrosion proof. The spring loaded jack in the middle provides a vice like grip to the Burette and prevents it from slipping. Two tapered wedges are provided to ensure firm grip on rods having dia 1/2" or 3/8".

Material : Polypropylene

| Cap. ml.   | Type                 | Pcs/Pack |
|------------|----------------------|----------|
| 112.303.01 | Fisher Clamp- Single | 12       |
| 112.303.02 | Fisher Clamp- Double | 6        |



Fisher  
Clamp



### Burette Clamp

- Made of Aluminium, die casted, blue painted, black rubber sleeves for firm gripping of burettes.
- With adjustable clamps to hold upto 30 mm, spring type, thumb screw key for retort rods upto 16 mm dia.

| Cap. ml.   | Type   | Pcs/Pack |
|------------|--------|----------|
| 394.303.01 | Single | 12       |
| 394.303.02 | Double | 6        |

Burette  
Clamp



### Burette Clamp, Mild Steel

Material : Mild Steel, Chrome Plated,  
Fisher Type with Boss Head, Single.

| Cat. No.   | Type           | Max. Temp. | Pcs/Pack |
|------------|----------------|------------|----------|
| 318.303.01 | PVC Sleeve     | 80°C       | 12       |
| 318.303.02 | Silicon Sleeve | 280°C      | 12       |



### Burette Clamp, Mild Steel

Material : Mild Steel, Black Powder Coated,  
Fisher Type with Boss Head, Single.

| Cat. No.   | Type           | Max. Temp. | Pcs/Pack |
|------------|----------------|------------|----------|
| 319.303.01 | PVC Sleeve     | 80°C       | 12       |
| 319.303.02 | Silicon Sleeve | 280°C      | 12       |

### Burette Clamp, Mild Steel

Material : Mild Steel, Chrome Plated,  
Fisher Type with Boss Head, Double

| Cat. No.   | Type           | Max. Temp. | Pcs/Pack |
|------------|----------------|------------|----------|
| 320.303.01 | PVC Sleeve     | 80°C       | 6        |
| 320.303.02 | Silicon Sleeve | 280°C      | 6        |



### Burette Clamp, Mild Steel

Material : Mild Steel, Powder Coated,  
Fisher Type with Boss Head, Double

| Cat. No.   | Type           | Max. Temp. | Pcs/Pack |
|------------|----------------|------------|----------|
| 321.303.01 | PVC Sleeve     | 80°C       | 6        |
| 321.303.02 | Silicon Sleeve | 280°C      | 6        |





## Automatic Burettes

Glassco burettes are manufactured from ASTM E-438 TYPE 1 CLASS A BORO 3.3 heat resistant glass which meet DIN ISO 385 standards. Each and every piece is calibrated to deliver (TD, EX) +20°C. All A CLASS burettes are manufactured from precision bore tubing for accuracy.

These burettes come with PTFE Needle Valve Stopcock and Intermediate PTFE Key Stopcock. These all A class burettes come with Batch Certificate, and Accessories like Bottle and Rubber below. The printing of the burettes is done in blue colour for better visibility. These Burettes are also offered in Schellbach printing which helps in accurate reading of meniscus.



**Automatic Burette** Schellbach in compliance with **DIN ISO 385 standard Class AS**, conformity certified.

| SCHELL BACH<br>WITH INTERMEDIATE<br>STOPCOCK PTFE KEY<br>AND WITH NEEDLE<br>VALVE STOPCOCK | SCHELL BACH<br>WITHOUT<br>INTERMEDIATE<br>STOPCOCK<br>AND WITH NEEDLE<br>VALVE STOPCOCK<br>CAT NO. |          |          |                    |                          |              |
|--|--|----------|----------|--------------------|--------------------------|--------------|
|  |  | Cap. ml. | Division | Tolerance<br>(±ml) | BOTTLE<br>CAPACITY IN ML | Pcs/<br>Pack |
| 118.240.01   | 118.240.01A  | 10ML     | 0.05     | 0.03               | 500                      | 1            |
| 118.240.02   | 118.240.02A  | 25ML     | 0.1      | 0.05               | 2000                     | 1            |
| 118.240.03   | 118.240.03A  | 50ML     | 0.1      | 0.05               | 2000                     | 1            |



## Burette Automatic

**Automatic Burette** in compliance with **DIN ISO 385** and **USP standard Class AS**, conformity certified.

| CLEAR WITH INTERMEDIATE STOPCOCK PTFE KEY AND WITH NEEDLE VALVE STOPCOCK | CLEAR WITHOUT INTERMEDIATE PTFE KEY AND WITH PTFE NEEDLE VALVE STOPCOCK CAT NO. |          |          |                       |                       |           |
|--|---|----------|----------|-----------------------|-----------------------|-----------|
|  |   | Cap. ml. | Division | Tolerance ( $\pm$ ml) | BOTTLE CAPACITY IN ML | Pcs/ Pack |
| 118.201.01   | 118.202.01  | 10ML     | 0.05     | 0.03                  | 500                   | 1         |
| 118.201.02   | 118.202.02  | 25ML     | 0.1      | 0.05                  | 2000                  | 1         |
| 118.201.03   | 118.202.03  | 50ML     | 0.1      | 0.05                  | 2000                  | 1         |

Automatic  
Burette



Burette

ASTM

### Automatic Burette in Compliance with ASTM Standard

With Intermediate PTFE Key Stopcock And With Needle Valve Stopcock, Unserialized, Class A. All burettes come with rubber bulb and bottle.

| Catalogue No. | Capacity | Grad Interval (ml) | Tolerance ( $\pm$ ml) | Qty Per Pack |
|---------------|----------|--------------------|-----------------------|--------------|
| 118.401.01    | 10ml     | 0.05               | 0.04                  | 1            |
| 118.401.02    | 25ml     | 0.1                | 0.06                  | 1            |
| 118.401.03    | 50ml     | 0.1                | 0.1                   | 1            |

NEW





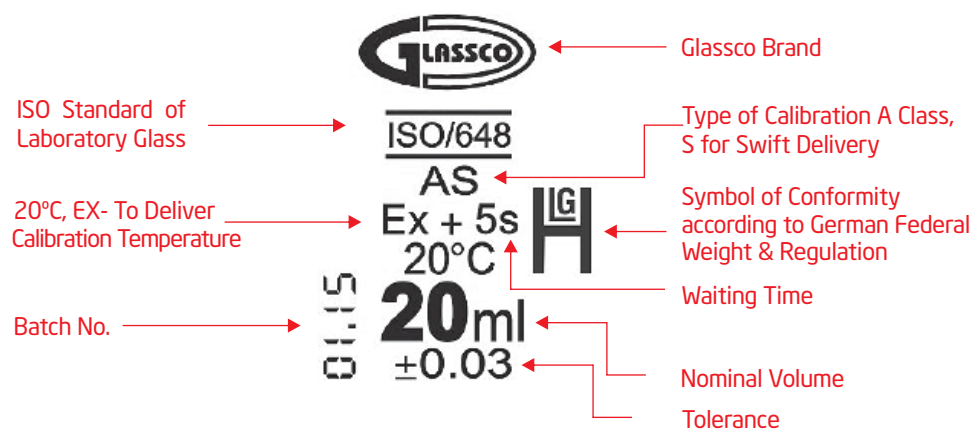
# Volumetric Pipettes

Glassco volumetric pipettes are manufactured in compliance with DIN ISO 648 standards. These pipettes are calibrated to deliver (TD, EX) + 20° C.

All volumetric pipettes are calibrated by automatic machine and then the final quality check is done on the quality control centre. The volumetric pipettes come in AS Class with conformity batch certificate and Class A in individual work certificate which is printed in amber colour which fuses into the glass.

Each pipette is accompanied with a batch or individual certificate in the pack you can also download the certificate from our website : [www.glasscolabs.com](http://www.glasscolabs.com) and by scanning the QR Code from the label of the box.

Below is the overview of the one mark pipette explaining in detail the content printed on it.



**Volumetric Pipettes, 1 mark,**  
with Individual Certificate, Class A,  
in compliance with **DIN ISO 648 Standard**

| Cat no.      | Cap. ml. | COLOUR CODE | Tolerance (±ml) | Pcs/ Pack |
|--------------|----------|-------------|-----------------|-----------|
| 123.223.02A* | 0.5ml    | 2 BLACK     | 0.005           | 5         |
| 123.223.01   | 1ml      | BLUE        | 0.008           | 5         |
| 123.223.02   | 2ml      | ORANGE      | 0.010           | 5         |
| 123.223.02A* | 3ml      | BLACK       | 0.01            | 5         |
| 123.223.02B* | 4ml      | 2 RED       | 0.015           | 5         |
| 123.223.03   | 5ml      | WHITE       | 0.015           | 5         |
| 123.223.03A* | 6ml      | 2 ORANGE    | 0.015           | 5         |
| 123.223.03B* | 7ml      | 2 GREEN     | 0.015           | 5         |
| 123.223.03C* | 8ml      | BLUE        | 0.02            | 5         |
| 123.223.03D* | 9ml      | BLACK       | 0.02            | 5         |
| 123.223.04   | 10ml     | RED         | 0.020           | 5         |
| 123.223.04A* | 15       | GREEN       | 0.03            | 5         |
| 123.223.05   | 20ml     | YELLOW      | 0.030           | 5         |
| 123.223.06   | 25ml     | BLUE        | 0.030           | 5         |
| 123.223.06E* | 30ml     | BLACK       | 0.03            | 5         |
| 123.223.060* | 40ml     | WHITE       | 0.05            | 5         |
| 123.223.07   | 50ml     | RED         | 0.050           | 5         |
| 123.223.08   | 100ml    | YELLOW      | 0.080           | 5         |

\*NON-DIN

**Volumetric Pipettes, 1 mark,**  
with Batch Certificate, Class AS  
in compliance with **DIN ISO 648 Standard**

| Cat No.      | Cap. ml. | COLOUR CODE | Tolerance (±ml) | Pcs/ Pack |
|--------------|----------|-------------|-----------------|-----------|
| 123.202.00*  | 0.5ml    | 2 BLACK     | 0.005           | 5         |
| 123.202.01   | 1ml      | BLUE        | 0.008           | 5         |
| 123.202.02   | 2ml      | ORANGE      | 0.010           | 5         |
| 123.202.02A* | 3ml      | BLACK       | 0.01            | 5         |
| 123.202.02B* | 4ml      | 2 RED       | 0.015           | 5         |
| 123.202.03   | 5ml      | WHITE       | 0.015           | 5         |
| 123.202.03A* | 6ml      | 2 ORANGE    | 0.015           | 5         |
| 123.202.03B* | 7ml      | 2 GREEN     | 0.015           | 5         |
| 123.202.03C* | 8ml      | BLUE        | 0.02            | 5         |
| 123.202.03D* | 9ml      | BLACK       | 0.02            | 5         |
| 123.202.04   | 10ml     | RED         | 0.020           | 5         |
| 123.202.04A* | 15ml     | GREEN       | 0.03            | 5         |
| 123.202.05   | 20ml     | YELLOW      | 0.030           | 5         |
| 123.202.06   | 25ml     | BLUE        | 0.030           | 5         |
| 123.202.06E* | 30ml     | BLACK       | 0.03            | 5         |
| 123.202.060* | 40ml     | WHITE       | 0.05            | 5         |
| 123.202.07   | 50ml     | RED         | 0.050           | 5         |
| 123.202.08   | 100ml    | YELLOW      | 0.080           | 5         |

\*NON-DIN





## Volumetric Pipettes

**Volumetric Pipettes, 2 mark**, with Batch Certificate,  
Class AS in compliance with **DIN ISO 648 Standard**, Amber printed.

| Cat No.      | Cap. ml. | COLOUR CODE | Tolerance (±ml) | Pcs/Pack |
|--------------|----------|-------------|-----------------|----------|
| 123.252.00*  | 0.5ml    | 2 BLACK     | 0.005           | 5        |
| 123.252.01   | 1ml      | BLUE        | 0.008           | 5        |
| 123.252.02   | 2ml      | ORANGE      | 0.010           | 5        |
| 123.252.02A* | 3ml      | BLACK       | 0.010           | 5        |
| 123.252.02B* | 4ml      | 2 RED       | 0.010           | 5        |
| 123.252.03   | 5ml      | WHITE       | 0.015           | 5        |
| 123.252.03A* | 6ml      | 2 ORANGE    | 0.015           | 5        |
| 123.252.03B* | 7ml      | 2 GREEN     | 0.015           | 5        |
| 123.252.03C* | 8ml      | BLUE        | 0.020           | 5        |
| 123.252.03D* | 9ml      | BLACK       | 0.020           | 5        |
| 123.252.04   | 10ml     | RED         | 0.020           | 5        |
| 123.252.04A* | 15ml     | GREEN       | 0.030           | 5        |
| 123.252.05   | 20ml     | YELLOW      | 0.030           | 5        |
| 123.252.06   | 25ml     | BLUE        | 0.030           | 5        |
| 123.252.06E* | 30ml     | BLACK       | 0.030           | 5        |
| 123.252.06O* | 40ml     | WHITE       | 0.050           | 5        |
| 123.252.07   | 50ml     | RED         | 0.050           | 5        |
| 123.252.08   | 100ml    | YELLOW      | 0.080           | 5        |

\* Non DIN

Volumetric  
Pipettes  
2 Mark

NEW



Volumetric  
Pipettes  
Class B

### Volumetric Pipette 1 mark Class B

| Cat no.    | Cap. ml. | COLOUR CODE | Tolerance (±ml) | Pcs/Pack |
|------------|----------|-------------|-----------------|----------|
| 122.222.01 | 1ML      | BLUE        | 0.015           | 5        |
| 122.222.02 | 2ML      | ORANGE      | 0.020           | 5        |
| 122.222.03 | 5ML      | WHITE       | 0.030           | 5        |
| 122.222.04 | 10ML     | RED         | 0.040           | 5        |
| 122.222.05 | 20ml     | YELLOW      | 0.060           | 5        |
| 122.222.06 | 25ml     | BLUE        | 0.060           | 5        |
| 122.222.07 | 50ml     | RED         | 0.100           | 5        |
| 122.222.08 | 100ml    | YELLOW      | 0.150           | 5        |



# Volumetric Pipettes



## PIPETTE VOLUMETRIC, CLASS A SERIALIZED

These Pipettes are manufactured from ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS, which meet **ASTM E 969 Class A** specifications. The Pipettes are manufactured to deliver and comes in amber colour enamel printing.

| Catalogue No. | Capacity | Tolerance (± ml) | Colour Coding Band | Qty Per Pack |
|---------------|----------|------------------|--------------------|--------------|
| 123.454.00D   | 0.5      | 0.006            | 2 BLACK            | 6            |
| 123.454.01    | 1        | 0.006            | BLUE               | 6            |
| 123.454.02    | 2        | 0.006            | ORANGE             | 6            |
| 123.454.02A   | 3        | 0.01             | BLACK              | 6            |
| 123.454.02B   | 4        | 0.01             | 2 RED              | 6            |
| 123.454.03    | 5        | 0.01             | WHITE              | 6            |
| 123.454.03A   | 6        | 0.01             | 2 ORANGE           | 6            |
| 123.454.03B   | 7        | 0.01             | GREEN              | 6            |
| 123.454.03C   | 8        | 0.02             | BLUE               | 6            |
| 123.454.03D   | 9        | 0.02             | BLACK              | 6            |
| 123.454.04    | 10       | 0.02             | RED                | 6            |
| 123.454.04E   | 15       | 0.02             | GREEN              | 6            |
| 123.454.05    | 20       | 0.03             | YELLOW             | 6            |
| 123.454.06    | 25       | 0.03             | BLUE               | 6            |
| 123.454.06E   | 30       | 0.03             | BLACK              | 6            |
| 123.454.06O   | 40       | 0.05             | WHITE              | 6            |
| 123.454.07    | 50       | 0.05             | RED                | 6            |
| 123.454.08    | 100      | 0.08             | YELLOW             | 2            |

## PIPETTE VOLUMETRIC, CLASS A UNSERIALIZED

These Pipettes are manufactured from ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS, which meet **ASTM E 969 Class A** specifications. The Pipettes are manufactured to deliver and comes in amber colour enamel printing.

| Catalogue No. | Capacity | Tolerance (± ml) | Colour Coding Band | Qty Per Pack |
|---------------|----------|------------------|--------------------|--------------|
| 123.450.00D   | 0.5      | 0.006            | 2 BLACK            | 6            |
| 123.450.01    | 1        | 0.006            | BLUE               | 6            |
| 123.450.02    | 2        | 0.006            | ORANGE             | 6            |
| 123.450.02A   | 3        | 0.01             | BLACK              | 6            |
| 123.450.02B   | 4        | 0.01             | 2 RED              | 6            |
| 123.450.03    | 5        | 0.01             | WHITE              | 6            |
| 123.450.03A   | 6        | 0.01             | 2 ORANGE           | 6            |
| 123.450.03B   | 7        | 0.01             | GREEN              | 6            |
| 123.450.03C   | 8        | 0.02             | BLUE               | 6            |
| 123.450.03D   | 9        | 0.02             | BLACK              | 6            |
| 123.450.04    | 10       | 0.02             | RED                | 6            |
| 123.450.04E   | 15       | 0.02             | GREEN              | 6            |
| 123.450.05    | 20       | 0.03             | YELLOW             | 6            |
| 123.450.06    | 25       | 0.03             | BLUE               | 6            |
| 123.450.06E   | 30       | 0.03             | BLACK              | 6            |
| 123.450.06O   | 40       | 0.05             | WHITE              | 6            |
| 123.450.07    | 50       | 0.05             | RED                | 6            |
| 123.450.08    | 100      | 0.08             | YELLOW             | 2            |

## PIPETTE, VOLUMETRIC CLASS B

These Pipettes are manufactured from ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS, which meet **ASTM E 969 Class B** specifications. The Pipettes are manufactured to deliver and comes in amber colour enamel printing.

| Catalogue No. | Capacity | Tolerance (± ml) | Colour Coding Band | Qty Per Pack |
|---------------|----------|------------------|--------------------|--------------|
| 122.422.00D   | 0.5      | 0.012            | 2 BLACK            | 6            |
| 122.422.01    | 1        | 0.012            | BLUE               | 6            |
| 122.422.02    | 2        | 0.012            | ORANGE             | 6            |
| 122.422.02A   | 3        | 0.02             | BLACK              | 6            |
| 122.422.02B   | 4        | 0.02             | 2 RED              | 6            |
| 122.422.03    | 5        | 0.02             | WHITE              | 6            |
| 122.422.03A   | 6        | 0.02             | 2 ORANGE           | 6            |
| 122.422.03B   | 7        | 0.02             | GREEN              | 6            |
| 122.422.03C   | 8        | 0.04             | BLUE               | 6            |
| 122.422.03D   | 9        | 0.04             | BLACK              | 6            |
| 122.422.04    | 10       | 0.04             | RED                | 6            |
| 122.422.04E   | 15       | 0.04             | GREEN              | 6            |
| 122.422.05    | 20       | 0.06             | YELLOW             | 6            |
| 122.422.06    | 25       | 0.06             | BLUE               | 6            |
| 122.422.06E   | 30       | 0.06             | BLACK              | 6            |
| 122.422.06O   | 40       | 0.10             | WHITE              | 6            |
| 122.422.07    | 50       | 0.10             | RED                | 6            |
| 122.422.08    | 100      | 0.16             | YELLOW             | 2            |



## USP Pipette

All the volumetric glassware or measuring instruments to be used in laboratories which are under surveillance of US authorities such as Food and Drug Administration (FDA), have a mandatory requirement to use products which adhere to standards set by US PHARMACOPEIA. The USP standard has some deviation from DIN, ISO standards. The products that fall under this category are

- Measuring Pipettes
- Volumetric Pipettes
- Measuring Cylinder
- Volumetric Flasks

All the products mentioned above have tighter tolerances compared to ISO standards.

## USP Volumetric Pipettes

### Volumetric Pipettes 1 mark in compliance with USP standard

| Cat No.<br>PIPETTES<br>WITH BATCH<br>CERTIFICATE<br>CLASS AS | Cat no. PIPTTES<br>WITH INDIVIDUAL<br>WORK<br>CERTIFICATE<br>CLASS A |          |                |                    |              |
|--|--|----------|----------------|--------------------|--------------|
|  |  | Cap. ml. | COLOUR<br>CODE | Tolerance<br>(±ml) | Pcs/<br>Pack |
| 123.461.00   | 123.220.00   | 0.5ml    | 2 BLACK        | 0.006              | 5            |
| 123.461.01   | 123.220.01   | 1ml      | BLUE           | 0.006              | 5            |
| 123.461.02   | 123.220.02   | 2ml      | ORANGE         | 0.006              | 5            |
| 123.461.02A  | 123.220.02A  | 3ml      | BLACK          | 0.010              | 5            |
| 123.461.02B  | 123.220.02B  | 4ml      | 2 RED          | 0.010              | 5            |
| 123.461.03   | 123.220.03   | 5ml      | WHITE          | 0.010              | 5            |
| 123.461.03A  | 123.220.03A  | 6ml      | 2 ORANGE       | 0.010              | 5            |
| 123.461.03B  | 123.220.03B  | 7ml      | 2 GREEN        | 0.010              | 5            |
| 123.461.03C  | 123.220.03C  | 8ml      | BLUE           | 0.020              | 5            |
| 123.461.03D  | 123.220.03D  | 9ml      | BLACK          | 0.020              | 5            |
| 123.461.04   | 123.220.04   | 10ml     | RED            | 0.020              | 5            |
| 123.461.04E  | 123.220.04E  | 15ml     | GREEN          | 0.030              | 5            |
| 123.461.05   | 123.220.05   | 20ml     | YELLOW         | 0.030              | 5            |
| 123.461.06   | 123.220.06   | 25ml     | BLUE           | 0.030              | 5            |
| 123.461.06E  | 123.220.06E  | 30ml     | BLACK          | 0.030              | 5            |
| 123.461.06O  | 123.220.06O  | 40ml     | WHITE          | 0.050              | 5            |
| 123.461.07   | 123.220.07   | 50ml     | RED            | 0.050              | 5            |
| 123.461.08   | 123.220.08   | 100ml    | YELLOW         | 0.080              | 5            |

## USP Graduated Pipettes

### Graduated Pipettes Type 3

(Serological) in compliance with USP Standard

| Pipettes<br>With Batch<br>Certificate<br>CLASS AS<br>Cat No. | Pipettes With<br>Individual Work<br>Certificate<br>CLASS A<br>Cat No. |          |                |                    |              |
|--|---|----------|----------------|--------------------|--------------|
|  |   | Cap. ml. | COLOUR<br>CODE | Tolerance<br>(±ml) | Pcs/<br>Pack |
| 125.461.00   | 125.220.00  | 0.1 ml   | WHITE          | 0.010              | 5            |
| 125.461.00A  | 125.220.00A   | 0.2 ml   | BLACK          | 0.010              | 5            |
| 125.461.01   | 125.220.01  | 1ml      | YELLOW         | 0.010              | 5            |
| 125.461.02   | 125.220.02  | 2ml      | BLACK          | 0.010              | 5            |
| 125.461.03   | 125.220.03  | 5ml      | RED            | 0.020              | 5            |
| 125.461.04   | 125.220.04  | 10ml     | ORANGE         | 0.030              | 5            |
| 125.461.06   | 125.220.06  | 25ml     | WHITE          | 0.050              | 5            |

## Pipette Box

made of polypropylene, this Pipette Box is designed in such a way that it can hold Pipettes of different lengths. The top of the box screws on the bottom and the height can be adjusted by screwing the top.

Material : Polypropylene

| Cat. No.   | Type        | Pcs/Pack |
|------------|-------------|----------|
| 171.303.01 | Pipette Box | 4        |

## Pipette Box





# Graduated Pipettes

Glassco Graduated Pipettes now comes in Type 1 (Mohr) and Type 3 (Serological).

- Type 1 : These pipettes are for partial delivery having 0 point at top.
- Type 3 : These pipettes are for complete delivery having 0 Point at top.

All are manufactured to meet ISO 835 Standards. These pipettes are calibrated to deliver (TD, EX) + 20° C. All graduated pipettes are calibrated by automatic machine and then the final quality check is done on the quality control centre. The graduated pipettes come in AS class with conformity batch certificate and individual work certificate which is printed in amber colour which fuses into the glass. Each pipette is accompanied with a batch or individual certificate in the pack. You can also download the certificate at [www.glasscolabs.com](http://www.glasscolabs.com). All A Class pipettes have a waiting time of 5 seconds.



**Graduated Pipettes Type 3 (Serological)**  
in compliance with **DIN ISO 835, EN ISO 835 Standard**

| Pipettes With Batch Certificate CLASS AS Cat No. | Pipettes With Individual Work Certificate CLASS A Cat No. |          |             |                 |           |
|--|---|----------|-------------|-----------------|-----------|
|  |   | Cap. ml. | COLOUR CODE | Tolerance (±ml) | Pcs/ Pack |
| 125.202.00                                       | 125.223.00  | 0.1 ml   | WHITE       | 0.006           | 5         |
| 125.202.00A                                      | 125.223.00A   | 0.2 ml   | BLACK       | 0.006           | 5         |
| 125.202.01                                       | 125.223.01  | 1ml      | YELLOW      | 0.007           | 5         |
| 125.202.02                                       | 125.223.02  | 2ml      | BLACK       | 0.010           | 5         |
| 125.202.03                                       | 125.223.03  | 5ml      | RED         | 0.030           | 5         |
| 125.202.04                                       | 125.223.04  | 10ml     | ORANGE      | 0.050           | 5         |
| 125.202.06                                       | 125.223.06  | 25ml     | WHITE       | 0.100           | 5         |



**Graduated Pipettes Type 1 (Mohr),**  
As per **DIN ISO 835 Standard**

| Pipettes With Batch Certificate CLASS AS Cat No. | Pipettes With Individual Work Certificate CLASS A Cat No. |          |             |                 |           |
|--|---|----------|-------------|-----------------|-----------|
|  |   | Cap. ml. | Colour Code | Tolerance (±ml) | Pcs/ Pack |
| 125.453.00                                       | 125.416.00  | 0.1 ml   | WHITE       | 0.006           | 5         |
| 125.453.00A                                      | 125.416.00A   | 0.2 ml   | BLACK       | 0.006           | 5         |
| 125.453.00B                                      | 125.416.00B   | 1ml      | YELLOW      | 0.007           | 5         |
| 125.453.01A                                      | 125.416.01A   | 2ml      | BLACK       | 0.010           | 5         |
| 125.453.02A                                      | 125.416.02A   | 5ml      | RED         | 0.030           | 5         |
| 125.453.04                                       | 125.416.04  | 10ml     | ORANGE      | 0.050           | 5         |
| 125.453.06                                       | 125.416.06B   | 25ml     | WHITE       | 0.100           | 5         |





## Graduated Pipettes

### Graduated Pipette (Serological), CLASS A SERIALIZED

These pipettes are manufactured which are calibrated to deliver as per **ASTM E 1044** and is printed in amber colour enamel.

| Catalogue No. | Capacity | Sub Division | Tolerance ( $\pm$ ml) | Colour Coding Band | Qty Per Pack |
|---------------|----------|--------------|-----------------------|--------------------|--------------|
| 125.423.00    | 0.1ml    | 0.01         | 0.0025                | WHITE              | 6            |
| 125.423.00A   | 0.2ml    | 0.01         | 0.004                 | BLACK              | 6            |
| 125.423.01    | 1 ML     | 0.1          | 0.01                  | RED                | 6            |
| 125.423.01A   | 1 ML     | 0.01         | 0.01                  | YELLOW             | 6            |
| 125.423.02    | 2 ML     | 0.1          | 0.01                  | GREEN              | 6            |
| 125.423.03    | 5 ML     | 0.1          | 0.02                  | BLUE               | 6            |
| 125.423.04    | 10 ML    | 0.1          | 0.03                  | ORANGE             | 6            |
| 125.423.06    | 25 ML    | 0.1          | 0.05                  | WHITE              | 2            |

### Graduated Pipette (Serological), CLASS A UNSERIALIZED

These pipettes are manufactured which are calibrated to deliver as per **ASTM E 1044** and is printed in amber colour enamel.

| Catalogue No. | Capacity | Sub Division | Tolerance ( $\pm$ ml) | Colour Coding Band | Qty Per Pack |
|---------------|----------|--------------|-----------------------|--------------------|--------------|
| 125.402.00    | 0.1ml    | 0.01         | 0.0025                | WHITE              | 6            |
| 125.402.00A   | 0.2ml    | 0.01         | 0.004                 | BLACK              | 6            |
| 125.402.01    | 1 ML     | 0.1          | 0.01                  | RED                | 6            |
| 125.402.01A   | 1 ML     | 0.01         | 0.01                  | YELLOW             | 6            |
| 125.402.02    | 2 ML     | 0.1          | 0.01                  | GREEN              | 6            |
| 125.402.03    | 5 ML     | 0.1          | 0.02                  | BLUE               | 6            |
| 125.402.04    | 10 ML    | 0.1          | 0.03                  | ORANGE             | 6            |
| 125.402.06    | 25 ML    | 0.1          | 0.05                  | WHITE              | 2            |

Graduated  
Pipettes  
Serological

NEW

ASTM



NEW

ASTM

Graduated  
Pipettes  
Mohr

NEW

ASTM

NEW

ASTM

### Graduated Pipettes (Mohr), CLASS A SERIALIZED

These Pipettes are manufactured which are calibrated to deliver as per **ASTM E 1293** and is printed in amber colour enamel.

| Catalogue No. | Capacity | Sub Division | Tolerance ( $\pm$ ml) | Colour Coding Band | Qty Per Pack |
|---------------|----------|--------------|-----------------------|--------------------|--------------|
| 125.452.00    | 0.1ml    | 0.01         | 0.0025                | WHITE              | 6            |
| 125.452.00A   | 0.2ml    | 0.01         | 0.004                 | BLACK              | 6            |
| 125.452.01    | 1 ML     | 0.1          | 0.01                  | RED                | 6            |
| 125.452.01A   | 1 ML     | 0.01         | 0.01                  | YELLOW             | 6            |
| 125.452.02    | 2 ML     | 0.1          | 0.01                  | GREEN              | 6            |
| 125.452.03    | 5 ML     | 0.1          | 0.02                  | BLUE               | 6            |
| 125.452.04    | 10 ML    | 0.1          | 0.03                  | ORANGE             | 6            |
| 125.452.05    | 25 ML    | 0.1          | 0.05                  | WHITE              | 2            |

### Graduated Pipettes (Mohr), CLASS A UNSERIALIZED

These Pipettes are manufactured which are calibrated to deliver as per **ASTM E 1293** and is printed in amber colour enamel.

| Catalogue No. | Capacity | Sub Division | Tolerance ( $\pm$ ml) | Colour Coding Band | Qty Per Pack |
|---------------|----------|--------------|-----------------------|--------------------|--------------|
| 125.455.00    | 0.1ml    | 0.01         | 0.0025                | WHITE              | 6            |
| 125.455.00A   | 0.2ml    | 0.01         | 0.004                 | BLACK              | 6            |
| 125.455.01    | 1 ML     | 0.1          | 0.01                  | RED                | 6            |
| 125.455.01A   | 1 ML     | 0.01         | 0.01                  | YELLOW             | 6            |
| 125.455.02    | 2 ML     | 0.1          | 0.01                  | GREEN              | 6            |
| 125.455.03    | 5 ML     | 0.1          | 0.02                  | BLUE               | 6            |
| 125.455.04    | 10 ML    | 0.1          | 0.03                  | ORANGE             | 6            |
| 125.455.05    | 25 ML    | 0.1          | 0.05                  | WHITE              | 2            |





**Graduated Pipette (Serological), CLASS B**

These Pipettes are manufactured which are calibrated to deliver as per **ASTM E 1044** and is printed in amber colour enamel.

| Catalogue No. | Capacity | Sub Division | Tolerance (± ml) | Colour Coding Band | Qty Per Pack |
|---------------|----------|--------------|------------------|--------------------|--------------|
| 124.418.00    | 0.1ML    | 0.01         | 0.005            | WHITE              | 6            |
| 124.418.00A   | 0.2ML    | 0.01         | 0.008            | BLACK              | 6            |
| 124.418.01    | 1 ML     | 0.1          | 0.02             | RED                | 6            |
| 124.418.01A   | 1 ML     | 0.01         | 0.02             | YELLOW             | 6            |
| 124.418.02    | 2 ML     | 0.1          | 0.02             | GREEN              | 6            |
| 124.418.03    | 5 ML     | 0.1          | 0.04             | BLUE               | 6            |
| 124.418.04    | 10 ML    | 0.1          | 0.06             | ORANGE             | 6            |
| 124.418.06B   | 25 ML    | 0.1          | 0.1              | WHITE              | 2            |



**Graduated Pipettes (Mohr), CLASS B**

These Pipettes are manufactured which are calibrated to deliver as per **ASTM E 1293** and is printed in amber colour enamel.

| Catalogue No. | Capacity | Sub Division | tolerance (± ml) | Colour Coding Band | Qty Per Pack |
|---------------|----------|--------------|------------------|--------------------|--------------|
| 124.125.00    | 0.1ML    | 0.01         | 0.005            | WHITE              | 6            |
| 124.125.00A   | 0.2ML    | 0.01         | 0.008            | BLACK              | 6            |
| 124.125.01    | 1 ML     | 0.1          | 0.02             | RED                | 6            |
| 124.125.01A   | 1 ML     | 0.01         | 0.02             | YELLOW             | 6            |
| 124.125.02    | 2 ML     | 0.1          | 0.02             | GREEN              | 6            |
| 124.125.03    | 5 ML     | 0.1          | 0.04             | BLUE               | 6            |
| 124.125.04    | 10 ML    | 0.1          | 0.06             | ORANGE             | 6            |
| 124.125.05    | 25 ML    | 0.1          | 0.1              | WHITE              | 2            |





## Pipette Pumps & Controller

### Pipette Controller

- Can fill 25 ml pipette under 4 seconds
- Safety valve and hydrophobic filters provide double protection against fluid penetration
- Two different speed modes - High & Low along with Gravity drain
- The pump speed can also be fine-tuned by varying finger pressure on operating knobs for better control of speed
- Cadmium free environment friendly NiMH batteries
- Batteries can be changed very easily by the user
- The intelligent charger prevents over charging / heating of batteries
- Low battery indicator
- The specially designed Desktop Stand enables the Pipette Controller to be charged while resting on it.
- The Pipette Controller can hold the serological pipette while resting on Desktop Stand.

### Technical Data

|                       |  |
|-----------------------|--|
| Power                 | 2 x 1.2 V / 1000 mAh NiMH batteries  |
| Battery Service Life  | Eight hours continuous use   |
| Battery Charging Time | 2 - 3 hours to charge fully  |
| Volumetric Range      | Plastic or Glass pipette from 0.1 ml up to 200 ml  |
| Safety System         | Replaceable hydrophobic 0.45 µm PTFE filter<br>Safety check valve  |
| Standard Accessory    | Battery charger (UK plug)<br>Desktop Stand<br>Hydrophobic PTFE membrane filter 0.45 µm 1Pc<br>Hydrophobic PTFE membrane filter 0.20 µm 1Pc<br>Wall mounting stand with screw |

### Pipette Controller



### Ordering Information

| Cat. No.   | Description               | Pcs/Pack |
|------------|---------------------------|----------|
| 501.404.01 | Pipette Controller - Blue | 1        |
| 501.404.02 | Desktop Stand             | 1        |



### Pipette Pump

### Pipette Pump

presenting a fast release pipetting device for precise pipetting & zip quick emptying. The Knurled thumbwheel can be rotated to draw up or dispense liquids while the releaser may be pushed in for zip-quick emptying. The moulded chuck has a silicon rubber collet inside to hold various pipettes of standard sizes. It resists acids & alkalis and can be easily disassembled for thorough cleaning.

Material : Acrylonitrile Butadiene Styrene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 104.303.01 | 2 ml     | 12       |
| 104.303.02 | 10 ml    | 12       |
| 104.303.03 | 25 ml    | 12       |

### Pipettes Bulb

A normal pressure on the bulb permits the intake of the required quantity. Used for repeated sampling.

| Cat. No.   | Size      | Cap.  | Pcs/Pack |
|------------|-----------|-------|----------|
| 411.303.01 | Small     | 5 ml  | 6        |
| 411.303.02 | Medium    | 10 ml | 6        |
| 411.303.03 | Large     | 15 ml | 6        |
| 411.303.04 | XX Large  | 25 ml | 6        |
| 411.303.05 | XXX Large | 50 ml | 6        |



### Pipettes Filler

### Pipette Filler

50 ml, with a release valve to allow adjustment of liquid.

| Cat. No.   | Type                                | Pcs/Pack |
|------------|-------------------------------------|----------|
| 415.303.01 | red colour, made of natural rubber  | 4        |
| 415.303.02 | blue colour, made of silicon rubber | 4        |





**Pipette Stand (Horizontal)**

this detachable stand can hold 12 pipettes, 6 on each side, in a horizontal position. Moulded in Polypropylene, this autoclavable stand has two sides which are attached to each other with three metallic rods coated with Polypropylene. This stand can be easily disassembled for space saving storage.

Material : Polypropylene

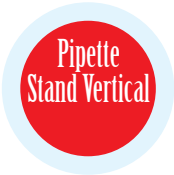
| Cat. No.   | Capacity        | Pcs/Pack |
|------------|-----------------|----------|
| 168.303.01 | For 12 Pipettes | 6        |

**Pipette Stand (Vertical)**

is a stable, non-corrosive, detachable stand which can hold 28 pipettes with maximum dia 14 mm. The heavy base measures 225 mm in diameter and a Polypropylene coated square rod measuring 375 mm in length is screwed into the base. The top disc that can be fixed on the rod has holes for holding pipettes while the lower one has pilot holes where the pipettes tips rest and liquids drain down to the base. These discs can be adjusted on the rod according to the length of the pipette. The arrows provided on the discs should be kept parallel to ensure that corresponding holes are being centered.

Material : Polypropylene

| Cat. No.   | Capacity        | Pcs/Pack |
|------------|-----------------|----------|
| 169.303.01 | For 28 Pipettes | 1        |



**Pipette Stand (94 Pipettes- Rotary)**

moulded in Polypropylene, this unique Stand holds a maximum of 94 pipettes and rotates on a central vertical axis for convenient selection of any particular pipette. The lower rotating disc has four concentric troughs with tapered sides and open bottom which cradle the pipette tips protectively and permit water drops to run off. The upper disc has a grid pattern concentric with the bottom disc and keeps the pipettes vertical. Liquids draining off the pipettes are retained on the top of the stationary base by the outer ring. This stand can be easily disassembled & reassembled.

Material : Polypropylene

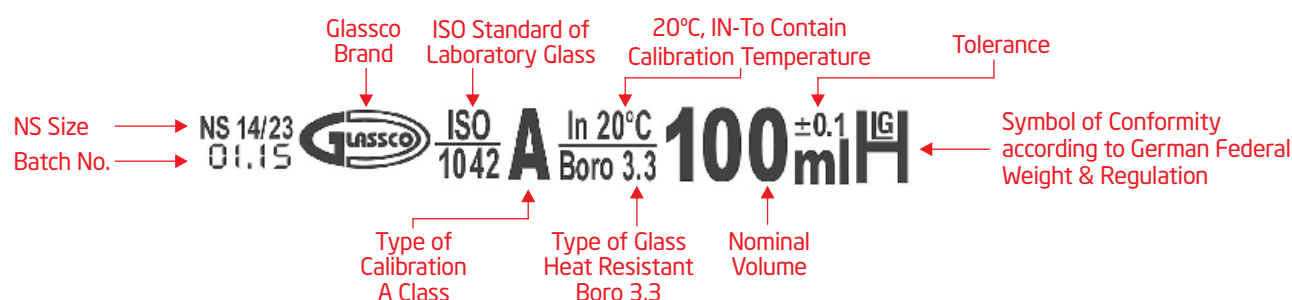
| Cat. No.   | Capacity        | Pcs/Pack |
|------------|-----------------|----------|
| 170.303.01 | For 94 Pipettes | 1        |



## Volumetric Flasks

Volumetric Flasks CLASS A are made from ASTM E 438 TYPE 1 CLASS A heat resistant BORO 3.3 Glass that meet ISO 1042 standard. The calibration is done on automatic computer controlled machine and are calibrated to contain (TC, In) according to the ISO tolerance standards. These are supplied with PP stoppers or glass stoppers in both amber and clear glass. All A Class flasks are printed in Blue colour & B Class in White colour, Amber Glass is marked in white colour the meniscus mark is diamond grinded for longer persistence and better accuracy. All Class A Volumetric Flask comes with Conformity Batch Certificate or Individual Work Certificate and have H mark printed on the Flask.

Overview of the Printing :



**Volumetric Flasks Class A** in compliance with **DIN ISO 1042 Standards** with conformity batch certified

| BATCH CERTIFICATE WITH PP STOPPER | BATCH CERTIFICATE WITH GLASS STOPPER |          |       |                 |           |
|-----------------------------------|--------------------------------------|----------|-------|-----------------|-----------|
|                                   |                                      | Cap. ml. | N/S   | Tolerance (±ml) | PCS/ PACK |
| 130.202.01                        | 130.234.01                           | 5ML      | 10/19 | 0.040           | 2         |
| 130.202.02                        | 130.234.02                           | 10ML     | 10/19 | 0.040           | 2         |
| 130.202.02A                       | 130.234.03                           | 20ML     | 10/19 | 0.040           | 2         |
| 130.202.03                        | 130.234.04                           | 25ML     | 10/19 | 0.040           | 2         |
| 130.202.04                        | 130.234.05                           | 50ML     | 12/21 | 0.060           | 2         |
| 130.202.04B                       | 130.234.06                           | 50ML     | 14/23 | 0.100           | 2         |
| 130.202.05B                       | 130.234.07                           | 100ML    | 12/21 | 0.100           | 2         |
| 130.202.05                        | 130.234.08                           | 100ML    | 14/23 | 0.100           | 2         |
| 130.202.06                        | 130.234.09                           | 200ML    | 14/23 | 0.150           | 2         |
| 130.202.07                        | 130.234.10                           | 250ML    | 14/23 | 0.150           | 2         |
| 130.202.08                        | 130.234.11                           | 500ML    | 19/26 | 0.250           | 2         |
| 130.202.09                        | 130.234.12                           | 1000ML   | 24/29 | 0.400           | 2         |
| 130.202.10                        | 130.234.13                           | 2000ML   | 29/32 | 0.600           | 1         |
| 130.202.11                        | 130.234.14                           | 5000ML   | 34/35 | 1.200           | 1         |

Volumetric Flasks



Amber Volumetric Flasks

**Amber Volumetric Flasks Class A** in compliance with **DIN ISO 1042 Standards** with conformity batch certified



| AMBER GLASS BATCH CERTIFICATE WITH PP STOPPER | AMBER GLASS BATCH CERTIFICATE WITH GLASS STOPPER |          |       |                 |           |
|---|--|----------|-------|-----------------|-----------|
|   |  | Cap. ml. | N/S   | Tolerance (±ml) | PCS/ PACK |
| 130.202.01A                                   | 130.234.01A                                      | 5ML      | 10/19 | 0.040           | 2         |
| 130.202.02AB                                  | 130.234.02A                                      | 10ML     | 10/19 | 0.040           | 2         |
| 130.202.03A                                   | 130.234.03A                                      | 20ML     | 10/19 | 0.040           | 2         |
| 130.202.04A                                   | 130.234.04A                                      | 25ML     | 10/19 | 0.040           | 2         |
| 130.202.05A                                   | 130.234.05A                                      | 50ML     | 12/21 | 0.060           | 2         |
| 130.202.05AB                                  | 130.234.06A                                      | 50ML     | 14/23 | 0.100           | 2         |
| 130.202.06AB                                  | 130.234.07A                                      | 100ML    | 12/21 | 0.100           | 2         |
| 130.202.06A                                   | 130.234.08A                                      | 100ML    | 14/23 | 0.100           | 2         |
| 130.202.07A                                   | 130.234.09A                                      | 200ML    | 14/23 | 0.150           | 2         |
| 130.202.08A                                   | 130.234.10A                                      | 250ML    | 14/23 | 0.150           | 2         |
| 130.202.09A                                   | 130.234.11A                                      | 500ML    | 19/26 | 0.250           | 2         |
| 130.202.10A                                   | 130.234.12A                                      | 1000ML   | 24/29 | 0.400           | 2         |
| 130.202.11A                                   | 130.234.13A                                      | 2000ML   | 29/32 | 0.600           | 1         |



# Volumetric Flasks



Volumetric  
Flasks

**Volumetric Flask Class A** in compliance with **DIN ISO 1042 Standards** with Individual Work Certificate and Serial Number.

| INDIVIDUAL<br>WORK<br>CERTIFICATE<br>WITH PP<br>STOPPER | INDIVIDUAL<br>WORK<br>CERTIFICATE<br>WITH GLASS<br>STOPPER |          |       |                    |              |
|---|--|----------|-------|--------------------|--------------|
|   |  | Cap. ml. | N/S   | Tolerance<br>(±ml) | PCS/<br>PACK |
| 130.223.01  | 130.236.01   | 5ML      | 10/19 | 0.040              | 1            |
| 130.223.02  | 130.236.02   | 10ML     | 10/19 | 0.040              | 1            |
| 130.223.02A   | 130.236.03   | 20ML     | 10/19 | 0.040              | 1            |
| 130.223.03  | 130.236.04   | 25ML     | 10/19 | 0.040              | 1            |
| 130.223.04  | 130.236.05   | 50ML     | 12/21 | 0.060              | 1            |
| 130.223.04B   | 130.236.06   | 50ML     | 14/23 | 0.100              | 1            |
| 130.223.05B   | 130.236.07   | 100ML    | 12/21 | 0.100              | 1            |
| 130.223.05  | 130.236.08   | 100ML    | 14/23 | 0.100              | 1            |
| 130.223.06  | 130.236.09   | 200ML    | 14/23 | 0.150              | 1            |
| 130.223.07  | 130.236.10   | 250ML    | 14/23 | 0.150              | 1            |
| 130.223.08  | 130.236.11   | 500ML    | 19/26 | 0.250              | 1            |
| 130.223.09  | 130.236.12   | 1000ML   | 24/29 | 0.400              | 1            |
| 130.223.10  | 130.236.13   | 2000ML   | 29/32 | 0.600              | 1            |
| 130.223.11  | 130.236.14   | 5000ML   | 34/35 | 1.200              | 1            |

01.12 159

Batch Code

Individual  
Serialized No.

For more information see Page : 40

Amber  
Volumetric  
Flasks

**Amber Volumetric Flask Class A** in compliance with **DIN ISO 1042 Standards** with Individual Work Certificate and Serial Number.

| AMBER GLASS<br>WITH INDIVIDUAL<br>WORK<br>CERTIFICATE<br>WITH<br>PP STOPPER | AMBER GLASS<br>WITH INDIVIDUAL<br>WORK<br>CERTIFICATE<br>WITH GLASS<br>STOPPER |          |       |                    |              |
|---|--|----------|-------|--------------------|--------------|
|   |  | Cap. ml. | N/S   | Tolerance<br>(±ml) | PCS/<br>PACK |
| 130.223.01A   | 130.236.01A  | 5ML      | 10/19 | 0.040              | 1            |
| 130.223.02AB  | 130.236.02A  | 10ML     | 10/19 | 0.040              | 1            |
| 130.223.03A   | 130.236.03A  | 20ML     | 10/19 | 0.040              | 1            |
| 130.223.04A   | 130.236.04A  | 25ML     | 10/19 | 0.040              | 1            |
| 130.223.05A   | 130.236.05A  | 50ML     | 12/21 | 0.060              | 1            |
| 130.223.05AB  | 130.236.06A  | 50ML     | 14/23 | 0.100              | 1            |
| 130.223.06AB  | 130.236.07A  | 100ML    | 12/21 | 0.100              | 1            |
| 130.223.06A   | 130.236.08A  | 100ML    | 14/23 | 0.100              | 1            |
| 130.223.07A   | 130.236.09A  | 200ML    | 14/23 | 0.150              | 1            |
| 130.223.08A   | 130.236.10A  | 250ML    | 14/23 | 0.150              | 1            |
| 130.223.09A   | 130.236.11A  | 500ML    | 19/26 | 0.250              | 1            |
| 130.223.10A   | 130.236.12A  | 1000ML   | 24/29 | 0.400              | 1            |
| 130.223.11A   | 130.236.13A  | 2000ML   | 29/32 | 0.600              | 1            |





## Volumetric Flasks

### Volumetric Flasks, Clear Glass, Class B, DIN ISO-1042

| Cat. No.<br>WITH PP<br>STOPPER | Cat. No.<br>WITH Glass<br>STOPPER |          |       |                    |              |
|--------------------------------|-----------------------------------|----------|-------|--------------------|--------------|
|                                |                                   | Cap. ml. | N/S   | Tolerance<br>(±ml) | PCS/<br>PACK |
| 129.222.01                     | 128.234.01                        | 5ML      | 10/19 | 0.080              | 2            |
| 129.222.02                     | 128.234.02                        | 10ML     | 10/19 | 0.080              | 2            |
| 129.222.02A                    | 128.234.02A                       | 20ML     | 10/19 | 0.080              | 2            |
| 129.222.03                     | 128.234.03                        | 25ML     | 10/19 | 0.080              | 2            |
| 129.222.04                     | 128.234.04                        | 50ML     | 12/21 | 0.120              | 2            |
| 129.222.04A                    | 128.234.04A                       | 50ML     | 14/23 | 0.200              | 2            |
| 129.222.11                     | 128.234.11                        | 100ML    | 12/21 | 0.200              | 2            |
| 129.222.05                     | 128.234.05                        | 100ML    | 14/23 | 0.200              | 2            |
| 129.222.06                     | 128.234.06                        | 200ML    | 14/23 | 0.300              | 2            |
| 129.222.07                     | 128.234.07                        | 250ML    | 14/23 | 0.300              | 2            |
| 129.222.08                     | 128.234.08                        | 500ML    | 19/26 | 0.500              | 2            |
| 129.222.09                     | 128.234.09                        | 1000ML   | 24/29 | 0.800              | 2            |
| 129.222.10                     | 128.234.10                        | 2000ML   | 29/32 | 1.200              | 1            |

Volumetric  
Flasks



Volumetric  
Flasks

### Volumetric Flasks, Amber Glass, Class B, DIN ISO-1042

| Cat. No.<br>WITH<br>PP STOPPER | Cat. No.<br>WITH GLASS<br>STOPPER | Cap. ml. | N/S   | Tolerance<br>(±ml) | PCS/<br>PACK |
|--------------------------------|-----------------------------------|----------|-------|--------------------|--------------|
|                                |                                   |          |       |                    |              |
| 130.222.01A                    | 130.422.01A                       | 5ML      | 10/19 | 0.040              | 1            |
| 130.222.02AB                   | 130.422.02AB                      | 10ML     | 10/19 | 0.040              | 1            |
| 130.222.03A                    | 130.422.03A                       | 20ML     | 10/19 | 0.040              | 1            |
| 130.222.04A                    | 130.422.04A                       | 25ML     | 10/19 | 0.040              | 1            |
| 130.222.05A                    | 130.422.05A                       | 50ML     | 12/21 | 0.060              | 1            |
| 130.222.05AB                   | 130.422.05AB                      | 50ML     | 14/23 | 0.100              | 1            |
| 130.222.06AB                   | 130.422.06AB                      | 100ML    | 12/21 | 0.100              | 1            |
| 130.222.06A                    | 130.422.06A                       | 100ML    | 14/23 | 0.100              | 1            |
| 130.222.07A                    | 130.422.07A                       | 200ML    | 14/23 | 0.150              | 1            |
| 130.222.08A                    | 130.422.08A                       | 250ML    | 14/23 | 0.150              | 1            |
| 130.222.09A                    | 130.422.09A                       | 500ML    | 19/26 | 0.250              | 1            |
| 130.222.10A                    | 130.422.10A                       | 1000ML   | 24/29 | 0.400              | 1            |
| 130.222.11A                    | 130.422.11A                       | 2000ML   | 29/32 | 0.600              | 1            |



# Volumetric Flasks



Volumetric  
Flasks

USP  
Flasks

**Volumetric Flask PP Stopper Class A** in compliance with USP (United States Pharmacopia) Standard with Individual work Certificate and Serial Number.

| WITH PP STOPPER CLEAR GLASS | WITH PP STOPPER AMBER GLASS |          |       |                 |           |
|-----------------------------|-----------------------------|----------|-------|-----------------|-----------|
|                             |                             | Cap. ml. | N/S   | Tolerance (±ml) | PCS/ PACK |
| 130.220.01                  | 130.220.01A                 | 5ML      | 10/19 | 0.020           | 1         |
| 130.220.02                  | 130.220.02AB                | 10ML     | 10/19 | 0.020           | 1         |
| 130.220.02A                 | 130.220.03A                 | 20ML     | 10/19 | 0.030           | 1         |
| 130.220.03                  | 130.220.04A                 | 25ML     | 10/19 | 0.030           | 1         |
| 130.220.04                  | 130.220.05A                 | 50ML     | 12/21 | 0.050           | 1         |
| 130.220.04B                 | 130.220.05AB                | 50ML     | 14/23 | 0.050           | 1         |
| 130.220.05B                 | 130.220.06AB                | 100ML    | 12/21 | 0.080           | 1         |
| 130.220.05                  | 130.220.06A                 | 100ML    | 14/23 | 0.080           | 1         |
| 130.220.06                  | 130.220.07A                 | 200ML    | 14/23 | 0.100           | 1         |
| 130.220.07                  | 130.220.08A                 | 250ML    | 14/23 | 0.120           | 1         |
| 130.220.08                  | 130.220.09A                 | 500ML    | 19/26 | 0.150           | 1         |
| 130.220.09                  | 130.220.10A                 | 1000ML   | 24/29 | 0.300           | 1         |
| 130.220.10                  | 130.220.11A                 | 2000ML   | 29/32 | 0.500           | 1         |



Volumetric  
Flasks

**Volumetric Flask, PP Stopper Class A**  
In Compliance with USP Standard with  
Conformity Batch Certificate

| WITH PP STOPPER CLEAR GLASS | WITH PP STOPPER AMBER GLASS |          |       |                 |           |
|-----------------------------|-----------------------------|----------|-------|-----------------|-----------|
|                             |                             | Cap. ml. | N/S   | Tolerance (±ml) | PCS/ PACK |
| 130.461.01                  | 130.462.01                  | 5ML      | 10/19 | 0.020           | 2         |
| 130.461.02                  | 130.462.02                  | 10ML     | 10/19 | 0.020           | 2         |
| 130.461.03                  | 130.462.03                  | 20ML     | 10/19 | 0.030           | 2         |
| 130.461.04                  | 130.462.04                  | 25ML     | 10/19 | 0.030           | 2         |
| 130.461.05                  | 130.462.05                  | 50ML     | 12/21 | 0.050           | 2         |
| 130.461.06                  | 130.462.06                  | 50ML     | 14/23 | 0.050           | 2         |
| 130.461.07                  | 130.462.07                  | 100ML    | 12/21 | 0.080           | 2         |
| 130.461.08                  | 130.462.08                  | 100ML    | 14/23 | 0.080           | 2         |
| 130.461.09                  | 130.462.09                  | 200ML    | 14/23 | 0.100           | 2         |
| 130.461.10                  | 130.462.10                  | 250ML    | 14/23 | 0.120           | 2         |
| 130.461.11                  | 130.462.11                  | 500ML    | 19/26 | 0.150           | 2         |
| 130.461.12                  | 130.462.12                  | 1000ML   | 24/29 | 0.300           | 2         |
| 130.461.13                  | 130.462.13                  | 2000ML   | 29/32 | 0.500           | 1         |





## Volumetric Flasks

### Volumetric Flask, CLASS A, SERIALIZED

These flasks are made as per **ASTM E 288 Class A** Serialized specification. The flasks have diamond graduated line and are calibrated TC (To Contain). These comes in white colour enamel printing.

| Catalogue No. | Capacity | Tolerance (± ml) | Stopper Size | Stopper Type        | Qty Per Pack |
|---------------|----------|------------------|--------------|---------------------|--------------|
| 134.236.00    | 1ml      | +/- 0.01 mL      | 8            | PENNY HEAD GLASS    | 1            |
| 134.236.00B   | 2ml      | +/- 0.015 mL     | 8            | PENNY HEAD GLASS    | 1            |
| 134.236.01    | 5ml      | +/- 0.02 mL      | 9            | PENNY HEAD GLASS    | 1            |
| 131.236.01    | 5ml      | +/- 0.02 mL      | 13           | PENNY HEAD GLASS    | 1            |
| 134.236.02    | 10ml     | +/- 0.02 mL      | 9            | PENNY HEAD GLASS    | 1            |
| 131.236.02    | 10ml     | +/- 0.02 mL      | 13           | PENNY HEAD GLASS    | 1            |
| 134.236.03    | 20ml     | +/- 0.03 mL      | 9            | PENNY HEAD GLASS    | 1            |
| 131.236.03    | 20ml     | +/- 0.03 mL      | 13           | PENNY HEAD GLASS    | 1            |
| 134.236.04    | 25ml     | +/- 0.03 mL      | 9            | PENNY HEAD GLASS    | 1            |
| 131.236.04    | 25ml     | +/- 0.03 mL      | 13           | PENNY HEAD GLASS    | 1            |
| 134.236.05    | 50ml     | +/- 0.05 mL      | 9            | PENNY HEAD GLASS    | 1            |
| 131.236.05    | 50ml     | +/- 0.05 mL      | 13           | PENNY HEAD GLASS    | 1            |
| 134.236.06    | 100ml    | +/- 0.08 mL      | 13           | PENNY HEAD GLASS    | 1            |
| 131.236.06    | 100ml    | +/- 0.08 mL      | 16           | PENNY HEAD GLASS    | 1            |
| 134.236.07    | 200ml    | +/- 0.10 mL      | 16           | PENNY HEAD GLASS    | 1            |
| 131.236.07    | 200ml    | +/- 0.10 mL      | 19           | PENNY HEAD GLASS    | 1            |
| 134.236.08    | 250ml    | +/- 0.12 mL      | 16           | PENNY HEAD GLASS    | 1            |
| 131.236.08    | 250ml    | +/- 0.12 mL      | 19           | PENNY HEAD GLASS    | 1            |
| 131.236.09    | 500ml    | +/- 0.20 mL      | 19           | PENNY HEAD GLASS    | 1            |
| 131.236.10    | 1000ml   | +/- 0.30 mL      | 22           | PENNY HEAD GLASS    | 1            |
| 131.236.11    | 2000ml   | +/- 0.50 mL      | 27           | PENNY HEAD GLASS    | 1            |
| 131.236.13    | 4000ml   | +/- 1.20 mL      | 38           | PENNY HEAD GLASS    | 1            |
| 131.236.15    | 6000ml   | +/- 1.50 mL      | 38           | PENNY HEAD GLASS    | 1            |
| 134.276.00    | 1ml      | +/- 0.01 mL      | 8            | POLYTHELENE STOPPER | 1            |
| 134.276.00B   | 2ml      | +/- 0.015 mL     | 8            | POLYTHELENE STOPPER | 1            |
| 134.276.01    | 5ml      | +/- 0.02 mL      | 9            | POLYTHELENE STOPPER | 1            |
| 131.276.01    | 5ml      | +/- 0.02 mL      | 13           | POLYTHELENE STOPPER | 1            |
| 134.276.02    | 10ml     | +/- 0.02 mL      | 9            | POLYTHELENE STOPPER | 1            |
| 131.276.02    | 10ml     | +/- 0.02 mL      | 13           | POLYTHELENE STOPPER | 1            |
| 134.276.03    | 20ml     | +/- 0.03 mL      | 9            | POLYTHELENE STOPPER | 1            |
| 131.276.03    | 20ml     | +/- 0.03 mL      | 13           | POLYTHELENE STOPPER | 1            |
| 134.276.04    | 25ml     | +/- 0.03 mL      | 9            | POLYTHELENE STOPPER | 1            |
| 131.276.04    | 25ml     | +/- 0.03 mL      | 13           | POLYTHELENE STOPPER | 1            |
| 134.276.05    | 50ml     | +/- 0.05 mL      | 9            | POLYTHELENE STOPPER | 1            |
| 131.276.05    | 50ml     | +/- 0.05 mL      | 13           | POLYTHELENE STOPPER | 1            |
| 134.276.06    | 100ml    | +/- 0.08 mL      | 13           | POLYTHELENE STOPPER | 1            |
| 131.276.06    | 100ml    | +/- 0.08 mL      | 16           | POLYTHELENE STOPPER | 1            |
| 134.276.07    | 200ml    | +/- 0.10 mL      | 16           | POLYTHELENE STOPPER | 1            |
| 131.276.07    | 200ml    | +/- 0.10 mL      | 19           | POLYTHELENE STOPPER | 1            |
| 134.276.08    | 250ml    | +/- 0.12 mL      | 16           | POLYTHELENE STOPPER | 1            |
| 131.276.08    | 250ml    | +/- 0.12 mL      | 19           | POLYTHELENE STOPPER | 1            |
| 131.276.09    | 500ml    | +/- 0.20 mL      | 19           | POLYTHELENE STOPPER | 1            |
| 131.276.10    | 1000ml   | +/- 0.30 mL      | 22           | POLYTHELENE STOPPER | 1            |
| 131.276.11    | 2000ml   | +/- 0.50 mL      | 27           | POLYTHELENE STOPPER | 1            |
| 131.276.13    | 4000ml   | +/- 1.20 mL      | 38           | POLYTHELENE STOPPER | 1            |
| 131.276.15    | 6000ml   | +/- 1.50 mL      | 38           | POLYTHELENE STOPPER | 1            |
| 134.479.00    | 1ml      | +/- 0.01 mL      | 8            | PTFE STOPPER        | 1            |
| 134.479.00B   | 2ml      | +/- 0.015 mL     | 8            | PTFE STOPPER        | 1            |
| 134.479.01    | 5ml      | +/- 0.02 mL      | 9            | PTFE STOPPER        | 1            |
| 131.479.01    | 5ml      | +/- 0.02 mL      | 13           | PTFE STOPPER        | 1            |
| 134.479.02    | 10ml     | +/- 0.02 mL      | 9            | PTFE STOPPER        | 1            |
| 134.479.04    | 25ml     | +/- 0.03 mL      | 9            | PTFE STOPPER        | 1            |
| 131.479.04    | 25ml     | +/- 0.03 mL      | 13           | PTFE STOPPER        | 1            |
| 134.479.05    | 50ml     | +/- 0.05 mL      | 9            | PTFE STOPPER        | 1            |
| 131.479.05    | 50ml     | +/- 0.05 mL      | 13           | PTFE STOPPER        | 1            |
| 134.479.06    | 100ml    | +/- 0.08 mL      | 13           | PTFE STOPPER        | 1            |
| 131.479.06    | 100ml    | +/- 0.08 mL      | 16           | PTFE STOPPER        | 1            |
| 134.479.07    | 200ml    | +/- 0.10 mL      | 16           | PTFE STOPPER        | 1            |
| 131.479.07    | 200ml    | +/- 0.10 mL      | 19           | PTFE STOPPER        | 1            |
| 134.479.08    | 250ml    | +/- 0.12 mL      | 16           | PTFE STOPPER        | 1            |
| 131.479.08    | 250ml    | +/- 0.12 mL      | 19           | PTFE STOPPER        | 1            |
| 131.479.09    | 500ml    | +/- 0.20 mL      | 19           | PTFE STOPPER        | 1            |
| 131.479.10    | 1000ml   | +/- 0.30 mL      | 22           | PTFE STOPPER        | 1            |
| 131.479.11    | 2000ml   | +/- 0.50 mL      | 27           | PTFE STOPPER        | 1            |
| 131.479.13    | 4000ml   | +/- 1.20 mL      | 38           | PTFE STOPPER        | 1            |
| 131.479.15    | 6000ml   | +/- 1.50 mL      | 38           | PTFE STOPPER        | 1            |

Volumetric  
Flash

ASTM



ASTM



NEW

ASTM

159

Serialized



# Volumetric Flasks



## Volumetric Flask, CLASS A, UNSERIALIZED

These flasks are made as per **ASTM E 288 Class A** Serialized specification. The flasks have diamond graduated line and are calibrated TC (To Contain). These comes in white colour enamel printing.



| Catalogue No. | Capacity | Tolerance (± ml) | Stopper Size | Stopper Type        | Qty Per Pack |
|---------------|----------|------------------|--------------|---------------------|--------------|
| 134.234.00    | 1ml      | +/- 0.01 mL      | 8            | PENNY HEAD GLASS    | 2            |
| 134.234.008   | 2ml      | +/- 0.015 mL     | 8            | PENNY HEAD GLASS    | 2            |
| 134.234.01    | 5ml      | +/- 0.02 mL      | 9            | PENNY HEAD GLASS    | 2            |
| 131.234.01    | 5ml      | +/- 0.02 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 134.234.02    | 10ml     | +/- 0.02 mL      | 9            | PENNY HEAD GLASS    | 2            |
| 131.234.02    | 10ml     | +/- 0.02 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 134.234.03    | 20ml     | +/- 0.03 mL      | 9            | PENNY HEAD GLASS    | 2            |
| 131.234.03    | 20ml     | +/- 0.03 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 134.234.04    | 25ml     | +/- 0.03 mL      | 9            | PENNY HEAD GLASS    | 2            |
| 131.234.04    | 25ml     | +/- 0.03 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 134.234.05    | 50ml     | +/- 0.05 mL      | 9            | PENNY HEAD GLASS    | 2            |
| 131.234.05    | 50ml     | +/- 0.05 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 134.234.06    | 100ml    | +/- 0.08 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 131.234.06    | 100ml    | +/- 0.08 mL      | 16           | PENNY HEAD GLASS    | 2            |
| 134.234.07    | 200ml    | +/- 0.10 mL      | 16           | PENNY HEAD GLASS    | 2            |
| 131.234.07    | 200ml    | +/- 0.10 mL      | 19           | PENNY HEAD GLASS    | 2            |
| 134.234.08    | 250ml    | +/- 0.12 mL      | 16           | PENNY HEAD GLASS    | 2            |
| 131.234.08    | 250ml    | +/- 0.12 mL      | 19           | PENNY HEAD GLASS    | 2            |
| 131.234.09    | 500ml    | +/- 0.20 mL      | 19           | PENNY HEAD GLASS    | 2            |
| 131.234.10    | 1000ml   | +/- 0.30 mL      | 22           | PENNY HEAD GLASS    | 2            |
| 131.234.11    | 2000ml   | +/- 0.50 mL      | 27           | PENNY HEAD GLASS    | 1            |
| 131.234.13    | 4000ml   | +/- 1.20 mL      | 38           | PENNY HEAD GLASS    | 1            |
| 131.234.15    | 6000ml   | +/- 1.50 mL      | 38           | PENNY HEAD GLASS    | 1            |
| 134.232.00    | 1ml      | +/- 0.01 mL      | 8            | POLYTHELENE STOPPER | 2            |
| 134.232.008   | 2ml      | +/- 0.015 mL     | 8            | POLYTHELENE STOPPER | 2            |
| 134.232.01    | 5ml      | +/- 0.02 mL      | 9            | POLYTHELENE STOPPER | 2            |
| 131.232.01    | 5ml      | +/- 0.02 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 134.232.02    | 10ml     | +/- 0.02 mL      | 9            | POLYTHELENE STOPPER | 2            |
| 131.232.02    | 10ml     | +/- 0.02 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 134.232.03    | 20ml     | +/- 0.03 mL      | 9            | POLYTHELENE STOPPER | 2            |
| 131.232.03    | 20ml     | +/- 0.03 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 134.232.04    | 25ml     | +/- 0.03 mL      | 9            | POLYTHELENE STOPPER | 2            |
| 131.232.04    | 25ml     | +/- 0.03 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 134.232.05    | 50ml     | +/- 0.05 mL      | 9            | POLYTHELENE STOPPER | 2            |
| 131.232.05    | 50ml     | +/- 0.05 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 134.232.06    | 100ml    | +/- 0.08 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 131.232.06    | 100ml    | +/- 0.08 mL      | 16           | POLYTHELENE STOPPER | 2            |
| 134.232.07    | 200ml    | +/- 0.10 mL      | 16           | POLYTHELENE STOPPER | 2            |
| 131.232.07    | 200ml    | +/- 0.10 mL      | 19           | POLYTHELENE STOPPER | 2            |
| 134.232.08    | 250ml    | +/- 0.12 mL      | 16           | POLYTHELENE STOPPER | 2            |
| 131.232.08    | 250ml    | +/- 0.12 mL      | 19           | POLYTHELENE STOPPER | 2            |
| 131.232.09    | 500ml    | +/- 0.20 mL      | 19           | POLYTHELENE STOPPER | 2            |
| 131.232.10    | 1000ml   | +/- 0.30 mL      | 22           | POLYTHELENE STOPPER | 2            |
| 131.232.11    | 2000ml   | +/- 0.50 mL      | 27           | POLYTHELENE STOPPER | 1            |
| 131.232.13    | 4000ml   | +/- 1.20 mL      | 38           | POLYTHELENE STOPPER | 1            |
| 131.232.15    | 6000ml   | +/- 1.50 mL      | 38           | POLYTHELENE STOPPER | 1            |
| 134.478.00    | 1ml      | +/- 0.01 mL      | 8            | PTFE STOPPER        | 2            |
| 134.478.008   | 2ml      | +/- 0.015 mL     | 8            | PTFE STOPPER        | 2            |
| 134.478.01    | 5ml      | +/- 0.02 mL      | 9            | PTFE STOPPER        | 2            |
| 131.478.01    | 5ml      | +/- 0.02 mL      | 13           | PTFE STOPPER        | 2            |
| 134.478.02    | 10ml     | +/- 0.02 mL      | 9            | PTFE STOPPER        | 2            |
| 134.478.04    | 25ml     | +/- 0.03 mL      | 9            | PTFE STOPPER        | 2            |
| 131.478.04    | 25ml     | +/- 0.03 mL      | 13           | PTFE STOPPER        | 2            |
| 134.478.05    | 50ml     | +/- 0.05 mL      | 9            | PTFE STOPPER        | 2            |
| 131.478.05    | 50ml     | +/- 0.05 mL      | 13           | PTFE STOPPER        | 2            |
| 134.478.06    | 100ml    | +/- 0.08 mL      | 13           | PTFE STOPPER        | 2            |
| 131.478.06    | 100ml    | +/- 0.08 mL      | 16           | PTFE STOPPER        | 2            |
| 134.478.07    | 200ml    | +/- 0.10 mL      | 16           | PTFE STOPPER        | 2            |
| 131.478.07    | 200ml    | +/- 0.10 mL      | 19           | PTFE STOPPER        | 2            |
| 134.478.08    | 250ml    | +/- 0.12 mL      | 16           | PTFE STOPPER        | 2            |
| 131.478.08    | 250ml    | +/- 0.12 mL      | 19           | PTFE STOPPER        | 2            |
| 131.478.09    | 500ml    | +/- 0.20 mL      | 19           | PTFE STOPPER        | 2            |
| 131.478.10    | 1000ml   | +/- 0.30 mL      | 22           | PTFE STOPPER        | 2            |
| 131.478.11    | 2000ml   | +/- 0.50 mL      | 27           | PTFE STOPPER        | 1            |
| 131.478.13    | 4000ml   | +/- 1.20 mL      | 38           | PTFE STOPPER        | 1            |
| 131.478.15    | 6000ml   | +/- 1.50 mL      | 38           | PTFE STOPPER        | 1            |





## Volumetric Flasks

### Amber Volumetric Flask, CLASS A, SERIALIZED

These flasks are made as per **ASTM E 288 Class A** Serialized specification. The flasks have diamond graduated line and are calibrated TC (To Contain). These comes in white colour enamel printing.

| Catalogue No. | Capacity | Tolerance ( $\pm$ ml) | Stopper Size | Stopper Type        | Qty Per Pack |
|---------------|----------|-----------------------|--------------|---------------------|--------------|
| 134.236.00A   | 1ml      | $\pm 0.01$ mL         | 8            | PENNY HEAD GLASS    | 1            |
| 134.236.00BA  | 2ml      | $\pm 0.015$ mL        | 8            | PENNY HEAD GLASS    | 1            |
| 134.236.01A   | 5ml      | $\pm 0.02$ mL         | 9            | PENNY HEAD GLASS    | 1            |
| 131.236.01A   | 5ml      | $\pm 0.02$ mL         | 13           | PENNY HEAD GLASS    | 1            |
| 134.236.02A   | 10ml     | $\pm 0.02$ mL         | 9            | PENNY HEAD GLASS    | 1            |
| 131.236.02A   | 10ml     | $\pm 0.02$ mL         | 13           | PENNY HEAD GLASS    | 1            |
| 134.236.03A   | 20ml     | $\pm 0.03$ mL         | 9            | PENNY HEAD GLASS    | 1            |
| 131.236.03A   | 20ml     | $\pm 0.03$ mL         | 13           | PENNY HEAD GLASS    | 1            |
| 134.236.04A   | 25ml     | $\pm 0.03$ mL         | 9            | PENNY HEAD GLASS    | 1            |
| 131.236.04A   | 25ml     | $\pm 0.03$ mL         | 13           | PENNY HEAD GLASS    | 1            |
| 134.236.05A   | 50ml     | $\pm 0.05$ mL         | 9            | PENNY HEAD GLASS    | 1            |
| 131.236.05A   | 50ml     | $\pm 0.05$ mL         | 13           | PENNY HEAD GLASS    | 1            |
| 134.236.06A   | 100ml    | $\pm 0.08$ mL         | 13           | PENNY HEAD GLASS    | 1            |
| 131.236.06A   | 100ml    | $\pm 0.08$ mL         | 16           | PENNY HEAD GLASS    | 1            |
| 134.236.07A   | 200ml    | $\pm 0.10$ mL         | 16           | PENNY HEAD GLASS    | 1            |
| 131.236.07A   | 200ml    | $\pm 0.10$ mL         | 19           | PENNY HEAD GLASS    | 1            |
| 134.236.08A   | 250ml    | $\pm 0.12$ mL         | 16           | PENNY HEAD GLASS    | 1            |
| 131.236.08A   | 250ml    | $\pm 0.12$ mL         | 19           | PENNY HEAD GLASS    | 1            |
| 131.236.09A   | 500ml    | $\pm 0.20$ mL         | 19           | PENNY HEAD GLASS    | 1            |
| 131.236.10A   | 1000ml   | $\pm 0.30$ mL         | 22           | PENNY HEAD GLASS    | 1            |
| 131.236.11A   | 2000ml   | $\pm 0.50$ mL         | 27           | PENNY HEAD GLASS    | 1            |
| 134.276.00A   | 1ml      | $\pm 0.01$ mL         | 8            | POLYTHELENE STOPPER | 1            |
| 134.276.00BA  | 2ml      | $\pm 0.015$ mL        | 8            | POLYTHELENE STOPPER | 1            |
| 134.276.01A   | 5ml      | $\pm 0.02$ mL         | 9            | POLYTHELENE STOPPER | 1            |
| 131.276.01A   | 5ml      | $\pm 0.02$ mL         | 13           | POLYTHELENE STOPPER | 1            |
| 134.276.02A   | 10ml     | $\pm 0.02$ mL         | 9            | POLYTHELENE STOPPER | 1            |
| 131.276.02A   | 10ml     | $\pm 0.02$ mL         | 13           | POLYTHELENE STOPPER | 1            |
| 134.276.03A   | 20ml     | $\pm 0.03$ mL         | 9            | POLYTHELENE STOPPER | 1            |
| 131.276.03A   | 20ml     | $\pm 0.03$ mL         | 13           | POLYTHELENE STOPPER | 1            |
| 134.276.04A   | 25ml     | $\pm 0.03$ mL         | 9            | POLYTHELENE STOPPER | 1            |
| 131.276.04A   | 25ml     | $\pm 0.03$ mL         | 13           | POLYTHELENE STOPPER | 1            |
| 134.276.05A   | 50ml     | $\pm 0.05$ mL         | 9            | POLYTHELENE STOPPER | 1            |
| 131.276.05A   | 50ml     | $\pm 0.05$ mL         | 13           | POLYTHELENE STOPPER | 1            |
| 134.276.06A   | 100ml    | $\pm 0.08$ mL         | 13           | POLYTHELENE STOPPER | 1            |
| 131.276.06A   | 100ml    | $\pm 0.08$ mL         | 16           | POLYTHELENE STOPPER | 1            |
| 134.276.07A   | 200ml    | $\pm 0.10$ mL         | 16           | POLYTHELENE STOPPER | 1            |
| 131.276.07A   | 200ml    | $\pm 0.10$ mL         | 19           | POLYTHELENE STOPPER | 1            |
| 134.276.08A   | 250ml    | $\pm 0.12$ mL         | 16           | POLYTHELENE STOPPER | 1            |
| 131.276.08A   | 250ml    | $\pm 0.12$ mL         | 19           | POLYTHELENE STOPPER | 1            |
| 131.276.09A   | 500ml    | $\pm 0.20$ mL         | 19           | POLYTHELENE STOPPER | 1            |
| 131.276.10A   | 1000ml   | $\pm 0.30$ mL         | 22           | POLYTHELENE STOPPER | 1            |
| 131.276.11A   | 2000ml   | $\pm 0.50$ mL         | 27           | POLYTHELENE STOPPER | 1            |
| 134.479.00A   | 1ml      | $\pm 0.01$ mL         | 8            | PTFE STOPPER        | 1            |
| 134.479.00BA  | 2ml      | $\pm 0.015$ mL        | 8            | PTFE STOPPER        | 1            |
| 134.479.01A   | 5ml      | $\pm 0.02$ mL         | 9            | PTFE STOPPER        | 1            |
| 131.479.01A   | 5ml      | $\pm 0.02$ mL         | 13           | PTFE STOPPER        | 1            |
| 134.479.02A   | 10ml     | $\pm 0.02$ mL         | 9            | PTFE STOPPER        | 1            |
| 134.479.04A   | 25ml     | $\pm 0.03$ mL         | 9            | PTFE STOPPER        | 1            |
| 131.479.04A   | 25ml     | $\pm 0.03$ mL         | 13           | PTFE STOPPER        | 1            |
| 134.479.05A   | 50ml     | $\pm 0.05$ mL         | 9            | PTFE STOPPER        | 1            |
| 131.479.05A   | 50ml     | $\pm 0.05$ mL         | 13           | PTFE STOPPER        | 1            |
| 134.479.06A   | 100ml    | $\pm 0.08$ mL         | 13           | PTFE STOPPER        | 1            |
| 131.479.06A   | 100ml    | $\pm 0.08$ mL         | 16           | PTFE STOPPER        | 1            |
| 134.479.07A   | 200ml    | $\pm 0.10$ mL         | 16           | PTFE STOPPER        | 1            |
| 131.479.07A   | 200ml    | $\pm 0.10$ mL         | 19           | PTFE STOPPER        | 1            |
| 134.479.08A   | 250ml    | $\pm 0.12$ mL         | 16           | PTFE STOPPER        | 1            |
| 131.479.08A   | 250ml    | $\pm 0.12$ mL         | 19           | PTFE STOPPER        | 1            |
| 131.479.09A   | 500ml    | $\pm 0.20$ mL         | 19           | PTFE STOPPER        | 1            |
| 131.479.10A   | 1000ml   | $\pm 0.30$ mL         | 22           | PTFE STOPPER        | 1            |
| 131.479.11A   | 2000ml   | $\pm 0.50$ mL         | 27           | PTFE STOPPER        | 1            |



159

Serialized



# Volumetric Flasks



## Amber Volumetric Flask, CLASS A, UNSERIALIZED

These flasks are made as per **ASTM E 288 Class A** Serialized specification. The flasks have diamond graduated line and are calibrated TC (To Contain). These comes in white colour enamel printing.



| Catalogue No. | Capacity | Tolerance (± ml) | Stopper Size | Stopper Type        | Qty Per Pack |
|---------------|----------|------------------|--------------|---------------------|--------------|
| 134.234.00A   | 1ml      | +/- 0.01 mL      | 8            | PENNY HEAD GLASS    | 2            |
| 134.234.00BA  | 2ml      | +/- 0.015 mL     | 8            | PENNY HEAD GLASS    | 2            |
| 134.234.01A   | 5ml      | +/- 0.02 mL      | 9            | PENNY HEAD GLASS    | 2            |
| 131.234.01A   | 5ml      | +/- 0.02 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 134.234.02A   | 10ml     | +/- 0.02 mL      | 9            | PENNY HEAD GLASS    | 2            |
| 131.234.02A   | 10ml     | +/- 0.02 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 134.234.03A   | 20ml     | +/- 0.03 mL      | 9            | PENNY HEAD GLASS    | 2            |
| 131.234.03A   | 20ml     | +/- 0.03 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 134.234.04A   | 25ml     | +/- 0.03 mL      | 9            | PENNY HEAD GLASS    | 2            |
| 131.234.04A   | 25ml     | +/- 0.03 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 134.234.05A   | 50ml     | +/- 0.05 mL      | 9            | PENNY HEAD GLASS    | 2            |
| 131.234.05A   | 50ml     | +/- 0.05 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 134.234.06A   | 100ml    | +/- 0.08 mL      | 13           | PENNY HEAD GLASS    | 2            |
| 131.234.06A   | 100ml    | +/- 0.08 mL      | 16           | PENNY HEAD GLASS    | 2            |
| 134.234.07A   | 200ml    | +/- 0.10 mL      | 16           | PENNY HEAD GLASS    | 2            |
| 131.234.07A   | 200ml    | +/- 0.10 mL      | 19           | PENNY HEAD GLASS    | 2            |
| 134.234.08A   | 250ml    | +/- 0.12 mL      | 16           | PENNY HEAD GLASS    | 2            |
| 131.234.08A   | 250ml    | +/- 0.12 mL      | 19           | PENNY HEAD GLASS    | 2            |
| 131.234.09A   | 500ml    | +/- 0.20 mL      | 19           | PENNY HEAD GLASS    | 2            |
| 131.234.10A   | 1000ml   | +/- 0.30 mL      | 22           | PENNY HEAD GLASS    | 2            |
| 131.234.11A   | 2000ml   | +/- 0.50 mL      | 27           | PENNY HEAD GLASS    | 1            |
| 134.232.00A   | 1ml      | +/- 0.01 mL      | 8            | POLYTHELENE STOPPER | 2            |
| 134.232.00BA  | 2ml      | +/- 0.015 mL     | 8            | POLYTHELENE STOPPER | 2            |
| 134.232.01A   | 5ml      | +/- 0.02 mL      | 9            | POLYTHELENE STOPPER | 2            |
| 131.232.01A   | 5ml      | +/- 0.02 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 134.232.02A   | 10ml     | +/- 0.02 mL      | 9            | POLYTHELENE STOPPER | 2            |
| 131.232.02A   | 10ml     | +/- 0.02 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 134.232.03A   | 20ml     | +/- 0.03 mL      | 9            | POLYTHELENE STOPPER | 2            |
| 131.232.03A   | 20ml     | +/- 0.03 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 134.232.04A   | 25ml     | +/- 0.03 mL      | 9            | POLYTHELENE STOPPER | 2            |
| 131.232.04A   | 25ml     | +/- 0.03 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 134.232.05A   | 50ml     | +/- 0.05 mL      | 9            | POLYTHELENE STOPPER | 2            |
| 131.232.05A   | 50ml     | +/- 0.05 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 134.232.06A   | 100ml    | +/- 0.08 mL      | 13           | POLYTHELENE STOPPER | 2            |
| 131.232.06A   | 100ml    | +/- 0.08 mL      | 16           | POLYTHELENE STOPPER | 2            |
| 134.232.07A   | 200ml    | +/- 0.10 mL      | 16           | POLYTHELENE STOPPER | 2            |
| 131.232.07A   | 200ml    | +/- 0.10 mL      | 19           | POLYTHELENE STOPPER | 2            |
| 134.232.08A   | 250ml    | +/- 0.12 mL      | 16           | POLYTHELENE STOPPER | 2            |
| 131.232.08A   | 250ml    | +/- 0.12 mL      | 19           | POLYTHELENE STOPPER | 2            |
| 131.232.09A   | 500ml    | +/- 0.20 mL      | 19           | POLYTHELENE STOPPER | 2            |
| 131.232.10A   | 1000ml   | +/- 0.30 mL      | 22           | POLYTHELENE STOPPER | 2            |
| 131.232.11A   | 2000ml   | +/- 0.50 mL      | 27           | POLYTHELENE STOPPER | 1            |
| 134.478.00A   | 1ml      | +/- 0.01 mL      | 8            | PTFE STOPPER        | 2            |
| 134.478.00BA  | 2ml      | +/- 0.015 mL     | 8            | PTFE STOPPER        | 2            |
| 134.478.01A   | 5ml      | +/- 0.02 mL      | 9            | PTFE STOPPER        | 2            |
| 131.478.01A   | 5ml      | +/- 0.02 mL      | 13           | PTFE STOPPER        | 2            |
| 134.478.02A   | 10ml     | +/- 0.02 mL      | 9            | PTFE STOPPER        | 2            |
| 134.478.04A   | 25ml     | +/- 0.03 mL      | 9            | PTFE STOPPER        | 2            |
| 131.478.04A   | 25ml     | +/- 0.03 mL      | 13           | PTFE STOPPER        | 2            |
| 134.478.05A   | 50ml     | +/- 0.05 mL      | 9            | PTFE STOPPER        | 2            |
| 131.478.05A   | 50ml     | +/- 0.05 mL      | 13           | PTFE STOPPER        | 2            |
| 134.478.06A   | 100ml    | +/- 0.08 mL      | 13           | PTFE STOPPER        | 2            |
| 131.478.06A   | 100ml    | +/- 0.08 mL      | 16           | PTFE STOPPER        | 2            |
| 134.478.07A   | 200ml    | +/- 0.10 mL      | 16           | PTFE STOPPER        | 2            |
| 131.478.07A   | 200ml    | +/- 0.10 mL      | 19           | PTFE STOPPER        | 2            |
| 134.478.08A   | 250ml    | +/- 0.12 mL      | 16           | PTFE STOPPER        | 2            |
| 131.478.08A   | 250ml    | +/- 0.12 mL      | 19           | PTFE STOPPER        | 2            |
| 131.478.09A   | 500ml    | +/- 0.20 mL      | 19           | PTFE STOPPER        | 2            |
| 131.478.10A   | 1000ml   | +/- 0.30 mL      | 22           | PTFE STOPPER        | 2            |
| 131.478.11A   | 2000ml   | +/- 0.50 mL      | 27           | PTFE STOPPER        | 1            |



## Volumetric Flasks

### Volumetric Flask (Snap Cap), CLASS A UNSERIALIZED

These flasks are made as per **ASTM E 288 Class A Unserialized** Specification. The flasks have diamond graduated line and are calibrated TC (to contain). It comes in white colour enamel printing .

| Catalogue No. | Capacity | Tolerance ( $\pm$ ml) | Stopper Type | Qty Per Pack |
|---------------|----------|-----------------------|--------------|--------------|
| 132.402.05W   | 50ml     | $\pm$ 0.05 mL         | SNAP CAP     | 2            |
| 132.402.06W   | 100ml    | $\pm$ 0.08 mL         | SNAP CAP     | 2            |
| 132.402.07W   | 200ml    | $\pm$ 0.10 mL         | SNAP CAP     | 2            |
| 132.402.08W   | 250ml    | $\pm$ 0.12 mL         | SNAP CAP     | 2            |
| 132.402.09W   | 500ml    | $\pm$ 0.20 mL         | SNAP CAP     | 2            |
| 132.402.10W   | 1000ml   | $\pm$ 0.30 mL         | SNAP CAP     | 2            |
| 132.402.11W   | 2000ml   | $\pm$ 0.50 mL         | SNAP CAP     | 1            |

Volumetric  
Flask



Volumetric  
Flask



### Volumetric Flask (Snap Cap), CLASS B

Designed as per **ASTM E 288 Class B**.

| Catalogue No. | Capacity | Tolerance ( $\pm$ ml) | Stopper Type | Qty Per Pack |
|---------------|----------|-----------------------|--------------|--------------|
| 132.402.05W   | 50ml     | $\pm$ 0.10 mL         | SNAP CAP     | 2            |
| 132.402.06W   | 100ml    | $\pm$ 0.16 mL         | SNAP CAP     | 2            |
| 132.402.07W   | 200ml    | $\pm$ 0.20 mL         | SNAP CAP     | 2            |
| 132.402.08W   | 250ml    | $\pm$ 0.24 mL         | SNAP CAP     | 2            |
| 132.402.09W   | 500ml    | $\pm$ 0.40 mL         | SNAP CAP     | 2            |
| 132.402.10W   | 1000ml   | $\pm$ 0.60 mL         | SNAP CAP     | 2            |
| 132.402.11W   | 2000ml   | $\pm$ 1.00 mL         | SNAP CAP     | 1            |

Volumetric  
Flask



### Volumetric Flask

blown in Polypropylene, are strong, unbreakable and have good contact clarity. These autoclavable flasks are provided with screw caps to prevent leakage.

Material : Polypropylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 158.303.01 | 25 ml    | 6        |
| 158.303.02 | 50 ml    | 6        |
| 158.303.03 | 100ml    | 6        |
| 158.303.04 | 250 ml   | 2        |
| 158.303.05 | 500ml    | 2        |
| 158.303.06 | 1000 ml  | 2        |





## Measuring Cylinders

GLASSCO measuring cylinders are made from ASTM E - 438 TYPE 1 CLASS A BORO 3.3 glass that meet ISO 4788 standard. The calibration is done on automatic computer controlled machine and are calibrated to contain (TC, In) according to the ISO tolerance standards. All these cylinders of CLASS A are printed in blue colour and class B in white colour. All Cylinders come with H Mark printed on it.



Measuring Cylinder

**Measuring Cylinder with Round Base Class A** with conformity batch certificate or individual work certificate (Economy Model)

| Cat No. with conformity batch certificate | Cat no. With individual work certificate | Economy  |              |                 |               |                      |
|---|--|----------|--------------|-----------------|---------------|----------------------|
|   |  | Cap. ml. | SUB DIVISION | Tolerance (±ml) | Lot PCS/ PACK | Individual PCS/ PACK |
| 139.202.01                                | 139.223.01                               | 5ML      | 0.1          | 0.05            | 2             | 1                    |
| 139.202.02                                | 139.223.02                               | 10ML     | 0.2          | 0.10            | 2             | 1                    |
| 139.202.03                                | 139.223.03                               | 25ML     | 0.5          | 0.25            | 2             | 1                    |
| 139.202.04                                | 139.223.04                               | 50ML     | 1.0          | 0.50            | 2             | 1                    |
| 139.202.05                                | 139.223.05                               | 100ML    | 1.0          | 0.50            | 2             | 1                    |
| 139.202.06                                | 139.223.06                               | 250ML    | 2.0          | 1.00            | 2             | 1                    |
| 139.202.07                                | 139.223.07                               | 500ML    | 5.0          | 2.50            | 2             | 1                    |
| 139.202.08                                | 139.223.08                               | 1000ML   | 10.0         | 5.00            | 1             | 1                    |
| 139.202.09                                | 139.223.09                               | 2000ML   | 20.0         | 10.00           | 1             | 1                    |

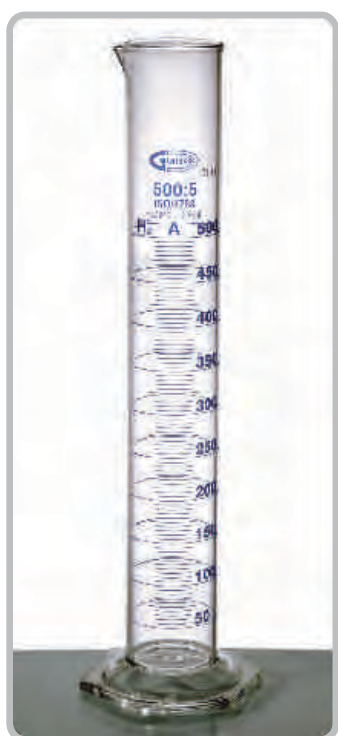
### Measuring Cylinders

moulded in Polypropylene. These autoclavable cylinders have raised prominent graduations for easy reading and have excellent contact clarity. The broad base provides good stability.

**Material :** Polypropylene

| Cat. No.   | Capacity | Least Count | Pcs/Pack |
|------------|----------|-------------|----------|
| 175.303.01 | 10 ml    | 0.2 ml      | 24       |
| 175.303.02 | 25 ml    | 0.5 ml      | 12       |
| 175.303.03 | 50 ml    | 1 ml        | 12       |
| 175.303.04 | 100 ml   | 1 ml        | 12       |
| 175.303.05 | 250 ml   | 2 ml        | 6        |
| 175.303.06 | 500 ml   | 5 ml        | 4        |
| 175.303.07 | 1000 ml  | 10 ml       | 2        |
| 175.303.08 | 2000 ml  | 20 ml       | 2        |

Measuring Cylinder PP



Measuring Cylinder

**Measuring Cylinder with hexagonal base class A** with conformity batch certificate or individual work certificate as per **DIN EN ISO 4788 & USP Standards**

| Cat No. with conformity batch certificate | Cat no. With individual work certificate |          |              |                 |               |                      |
|---|--|----------|--------------|-----------------|---------------|----------------------|
|   |  | Cap. ml. | SUB DIVISION | Tolerance (±ml) | Lot PCS/ PACK | Individual PCS/ PACK |
| 139.202.01A                               | 139.223.01A                              | 10ML     | 0.2          | 0.10            | 2             | 1                    |
| 139.202.02A                               | 139.223.02A                              | 25ML     | 0.5          | 0.25            | 2             | 1                    |
| 139.202.03A                               | 139.223.03A                              | 50ML     | 1.0          | 0.50            | 2             | 1                    |
| 139.202.04A                               | 139.223.04A                              | 100ML    | 1.0          | 0.50            | 2             | 1                    |
| 139.202.05A                               | 139.223.05A                              | 250ML    | 2.0          | 1.00            | 2             | 1                    |
| 139.202.06A                               | 139.223.06A                              | 500ML    | 5.0          | 2.50            | 2             | 1                    |
| 139.202.07A                               | 139.223.07A                              | 1000ML   | 10.0         | 5.00            | 1             | 1                    |
| 139.202.08A                               | 139.223.08A                              | 2000ML   | 20.0         | 10.00           | 1             | 1                    |

### Measuring Cylinders USP Grade

| Cat No. with conformity batch certificate | Cat no. With individual work certificate | New USP Cylinders |              |                 |               |                      |
|---|--|-------------------|--------------|-----------------|---------------|----------------------|
|   |  | Cap. ml.          | SUB DIVISION | Tolerance (±ml) | Lot PCS/ PACK | Individual PCS/ PACK |
| 139.292.01A                               | 139.221.01A                              | 10ML              | 0.2          | 0.10            | 2             | 1                    |
| 139.292.02A                               | 139.221.02A                              | 25ML              | 0.5          | 0.15            | 2             | 1                    |
| 139.292.03A                               | 139.221.03A                              | 50ML              | 1.0          | 0.25            | 2             | 1                    |
| 139.292.04A                               | 139.221.04A                              | 100ML             | 1.0          | 0.50            | 2             | 1                    |
| 139.292.05A                               | 139.221.05A                              | 250ML             | 2.0          | 1.00            | 2             | 1                    |
| 139.292.06A                               | 139.221.06A                              | 500ML             | 5.0          | 1.50            | 2             | 1                    |
| 139.292.07A                               | 139.221.07A                              | 1000ML            | 10.0         | 3.00            | 1             | 1                    |
| 139.292.08A                               | 139.221.08A                              | 2000ML            | 20.0         | 6.00            | 1             | 1                    |





## Measuring Cylinders

**Measuring Cylinder** as per **DIN EN ISO 4788** with detachable PP base, with protection collar Class B printed in white colour.

| Cat No.    | Cap. ml. | SUB DIVISION | Tolerance (±ml) | PCS/ PACK |
|------------|----------|--------------|-----------------|-----------|
| 137.202.02 | 10ML     | 0.2          | 0.200           | 10        |
| 137.202.03 | 25ML     | 0.5          | 0.500           | 10        |
| 137.202.04 | 50ML     | 1.0          | 1.000           | 10        |
| 137.202.05 | 100ML    | 1.0          | 1.000           | 10        |
| 137.202.06 | 250ML    | 2.0          | 2.000           | 10        |

Measuring  
Cylinder



Measuring  
Cylinder

NEW

**Measuring Cylinder, Low Form**, as per **DIN EN ISO 4788**, **Hex Base, Class B**, To Contain (TC), Single Metric, These are printed in amber colour.

| Cat No.     | Cap. ml. | Sub Division | Tolerance (±ml) | PCS/ PACK |
|-------------|----------|--------------|-----------------|-----------|
| 138.429.01A | 10ML     | 1.0          | 0.200           | 10        |
| 138.429.02A | 25ML     | 1.0          | 0.500           | 10        |
| 138.429.03A | 50ML     | 2.0          | 1.000           | 10        |
| 138.429.04A | 100ML    | 2.0          | 1.000           | 10        |
| 138.429.05A | 250ML    | 5.0          | 2.000           | 10        |
| 138.429.06A | 500 ML   | 10.0         | 5.000           | 10        |
| 138.429.07A | 1000ML   | 20.0         | 10.000          | 10        |
| 138.429.08A | 2000 ML  | 50.0         | 20.000          | 10        |





Measuring  
Cylinder

NEW

ASTM

## Measuring Cylinder Graduated, Hex Base, Class A, Unserialized, with Double Metric Scale, TD (To Deliver)

Cylinders are made to meet **ASTM E 1272** norms and are printed in double scale with white enamel. All the cylinders from 10ml to 2000ml comes with the bumper guard.

| Catalogue No. | Capacity | Grad Interval (ml) | Tolerance (± ml) | Qty Per Pack |
|---------------|----------|--------------------|------------------|--------------|
| 139.464.01A   | 10ml     | 0.2 mL             | 0.1              | 2            |
| 139.464.02A   | 25ml     | 0.5 mL             | 0.17             | 2            |
| 139.464.03A   | 50ml     | 1 mL               | 0.25             | 2            |
| 139.464.04A   | 100ml    | 1 mL               | 0.5              | 2            |
| 139.464.05A   | 250ml    | 2 mL               | 1                | 2            |
| 139.464.06A   | 500ml    | 5 mL               | 2                | 2            |
| 139.464.07A   | 1000ml   | 10 mL              | 3                | 1            |
| 139.464.08A   | 2000ml   | 20 mL              | 6                | 1            |

## Measuring Cylinder Graduated, Hex Base, Class A, Unserialized, with Double Metric Scale, TC (To Contain)

Cylinders are made to meet **ASTM E 1272** norms and are printed in double scale with white enamel. All the cylinders from 10ml to 2000ml comes with the bumper guard.

| Catalogue No. | Capacity | Grad Interval (ml) | Tolerance (± ml) | Qty Per Pack |
|---------------|----------|--------------------|------------------|--------------|
| 139.453.01A   | 10ml     | 0.2 mL             | 0.1              | 2            |
| 139.453.02A   | 25ml     | 0.5 mL             | 0.17             | 2            |
| 139.453.03A   | 50ml     | 1 mL               | 0.25             | 2            |
| 139.453.04A   | 100ml    | 1 mL               | 0.5              | 2            |
| 139.453.05A   | 250ml    | 2 mL               | 1                | 2            |
| 139.453.06A   | 500ml    | 5 mL               | 2                | 2            |
| 139.453.07A   | 1000ml   | 10 mL              | 3                | 1            |
| 139.453.08A   | 2000ml   | 20 mL              | 6                | 1            |

Measuring  
Cylinder

NEW

ASTM



Measuring  
Cylinder PP

## Measuring Cylinder Hexagonal

are now available with hexagonal base also. The hexagonal base provides excellent stability to the cylinder where as the tapered spout works really while pouring any reagent.

**Material : Polypropylene**

| Cat. No.   | Capacity | Least Count | Pcs/Pack |
|------------|----------|-------------|----------|
| 177.303.01 | 10 ml    | 0.2 ml      | 24       |
| 177.303.02 | 25 ml    | 0.5 ml      | 12       |
| 177.303.03 | 50 ml    | 1 ml        | 12       |
| 177.303.04 | 100ml    | 1 ml        | 12       |
| 177.303.05 | 250 ml   | 2 ml        | 6        |
| 177.303.06 | 500 ml   | 5 ml        | 4        |
| 177.303.07 | 1000 ml  | 10 ml       | 2        |





## Measuring Cylinders

### Measuring Cylinder Graduated Class B, Hex Base, with Double Metric Scale, TC (To Contain),

Cylinders are made to meet **ASTM E 1272** norms and are printed in double scale with white enamel. All the cylinders from 10ml to 2000ml comes with the bumper guard.

| Catalogue No. | Capacity | Grad Interval ( ml) | Tolerance (± ml) | Qty Per Pack |
|---------------|----------|---------------------|------------------|--------------|
| 138.289.01A   | 10ml     | 0.2 mL              | 0.1              | 2            |
| 138.289.02A   | 25ml     | 0.5 mL              | 0.17             | 2            |
| 138.289.03A   | 50ml     | 1 mL                | 0.25             | 2            |
| 138.289.04A   | 100ml    | 1 mL                | 0.5              | 2            |
| 138.289.05A   | 250ml    | 2 mL                | 1                | 2            |
| 138.289.06A   | 500ml    | 5 mL                | 2                | 2            |
| 138.289.07A   | 1000ml   | 10 mL               | 3                | 1            |
| 138.289.08A   | 2000ml   | 20 mL               | 6                | 1            |

Measuring  
Cylinder

NEW

ASTM



Measuring  
Cylinder

NEW

ASTM

### Measuring Cylinder Graduated Class B, Hex Base, with Double Metric Scale, TD (To Deliver),

Cylinders are made to meet **ASTM E 1272** norms and are printed in double scale with white enamel. All the cylinders from 10ml to 2000ml comes with the bumper guard.

| Catalogue No. | Capacity | Grad Interval ( ml) | Tolerance (± ml) | Qty Per Pack |
|---------------|----------|---------------------|------------------|--------------|
| 138.288.01A   | 10ml     | 0.2 mL              | 0.1              | 2            |
| 138.288.02A   | 25ml     | 0.5 mL              | 0.17             | 2            |
| 138.288.03A   | 50ml     | 1 mL                | 0.25             | 2            |
| 138.288.04A   | 100ml    | 1 mL                | 0.5              | 2            |
| 138.288.05A   | 250ml    | 2 mL                | 1                | 2            |
| 138.288.06A   | 500ml    | 5 mL                | 2                | 2            |
| 138.288.07A   | 1000ml   | 10 mL               | 3                | 1            |
| 138.288.08A   | 2000ml   | 20 mL               | 6                | 1            |

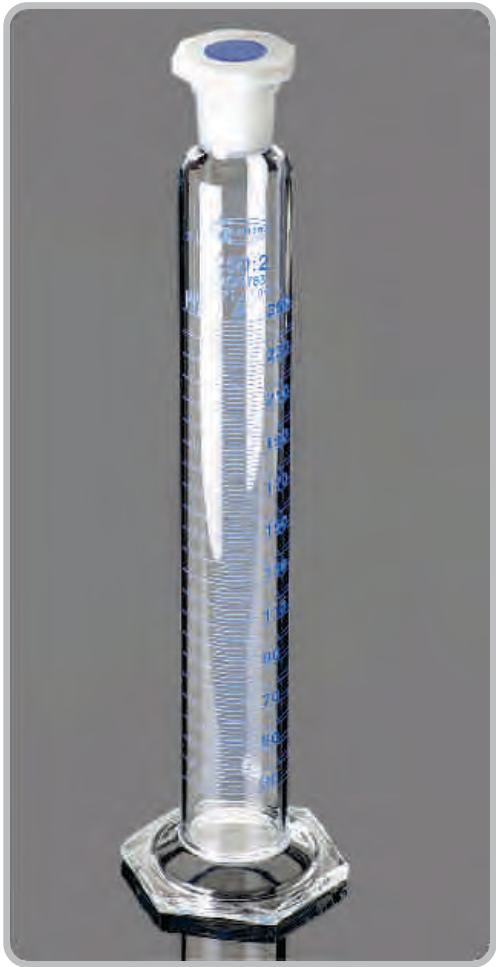
Brush  
Cylinder

### Brush, Cylinder

| Cat. No.   | Type           | Material | Pcs/Pack |
|------------|----------------|----------|----------|
| 593.303.05 | Cylinder Brush | Nylon    | 50       |

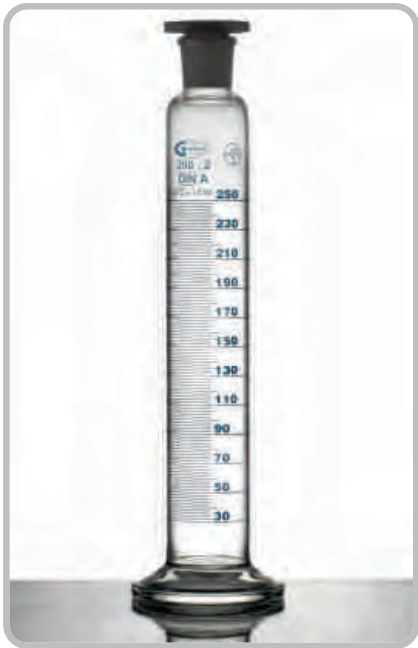


Measuring Cylinders



Mixing Cylinder Class A with PP stopper as per DIN EN ISO 4788 standards in round base and hexagonal base with batch conformity certificate.

| Cat No. with Round Base | Cat no. with Hexagonal Base | Cap. ml. | SUB DIVISION | Tolerance (±ml) | PCS/ PACK |
|-------------------------|-----------------------------|----------|--------------|-----------------|-----------|
| 141.202.02              | 142.202.01A                 | 10ML     | 0.2          | 0.10            | 2         |
| 141.202.03              | 142.202.02A                 | 25ML     | 0.5          | 0.25            | 2         |
| 141.202.04              | 142.202.03A                 | 50ML     | 1.0          | 0.50            | 2         |
| 141.202.05              | 142.202.04A                 | 100ML    | 1.0          | 0.50            | 2         |
| 141.202.06              | 142.202.05A                 | 250ML    | 2.0          | 1.00            | 2         |
| 141.202.07              | 142.202.06A                 | 500ML    | 5.0          | 2.50            | 2         |
| 141.202.08              | 142.202.07A                 | 1000ML   | 10.0         | 5.00            | 1         |
| 141.202.09              | 142.202.08A                 | 2000ML   | 20.0         | 10.00           | 1         |



Nessler Cylinder, for colour comparison CLASS A Graduated

| Cat No.    | Cap. ml. | Sub Divi ml. | Tolerance (±ml) | PCS/ PACK |
|------------|----------|--------------|-----------------|-----------|
| 143.202.01 | 50ML     | 25 & 50      | 0.4             | 10        |
| 143.202.02 | 100ML    | 50 & 100     | 0.8             | 10        |





## Micropipettes

### High Performance Micro Volume Pipette

- Fully autoclavable.
- UV resistance.
- "CE" mark awarded.
- Click-stop system for digital volume setting.
- Ergonomic Design ensuring light weight & soft plunger movement.
- Two step plunger operation allows "reverse pipetting technique".
- Calibration as per DIN 12650 & EN-ISO 8655 standards.
- High accuracy and precision guaranteed.
- Individual serial No. permanently marked on each pipette.
- Calibration report enclosed with every pipette.
- Color coded for easy identification

### Variable Micropipette

| Item Code  | Volume Range    | Increment | Pcs/Pack | Colour    |
|------------|-----------------|-----------|----------|-----------|
| 500.303.01 | 0.1 - 2.5 µl    | 0.01 µl   | 1        | Purple    |
| 500.303.02 | 0.5 - 10 µl     | 0.1 µl    | 1        | Purple    |
| 500.303.03 | 2 - 20 µl       | 0.1 µl    | 1        | Green     |
| 500.303.04 | 5 - 50 µl       | 0.5 µl    | 1        | Red       |
| 500.303.05 | 10 - 100 µl     | 0.5 µl    | 1        | Orange    |
| 500.303.06 | 50 - 200 µl     | 1.0 µl    | 1        | Yellow    |
| 500.303.07 | 20 - 200 µl     | 1.0 µl    | 1        | Yellow    |
| 500.303.08 | 100 - 1000 µl   | 5.0 µl    | 1        | Blue      |
| 500.303.09 | 200 - 1000 µl   | 5.0 µl    | 1        | Blue      |
| 500.303.10 | 500 - 5000 µl   | 50.0 µl   | 1        | Dark Blue |
| 500.303.11 | 1000 - 5000 µl  | 50.0 µl   | 1        | Dark Blue |
| 500.303.12 | 500 - 10000 µl  | 100.0 µl  | 1        | Dark Blue |
| 500.303.13 | 1000 - 10000 µl | 100.0 µl  | 1        | Dark Blue |

### Fixed Micropipette

| Item Code  | Volume Range | Pcs/Pack | Colour    |
|------------|--------------|----------|-----------|
| 501.303.01 | 2.5 µl       | 1        | Purple    |
| 501.303.02 | 5 µl         | 1        | Orange    |
| 501.303.03 | 10 µl        | 1        | Orange    |
| 501.303.04 | 20 µl        | 1        | Orange    |
| 501.303.05 | 25 µl        | 1        | Orange    |
| 501.303.06 | 50 µl        | 1        | Red       |
| 501.303.07 | 100 µl       | 1        | Yellow    |
| 501.303.08 | 200 µl       | 1        | Yellow    |
| 501.303.09 | 250 µl       | 1        | Blue      |
| 501.303.10 | 500 µl       | 1        | Blue      |
| 501.303.11 | 1000 µl      | 1        | Dark Blue |
| 501.303.12 | 2000 µl      | 1        | Dark Blue |
| 501.303.13 | 5000 µl      | 1        | Dark Blue |
| 501.303.14 | 10000 µl     | 1        | Dark Blue |

Micropipette



CE

Tips for  
Micropipette

### Tips for Micropipette

(To be used with Glassco Micropipette)

| Item Code  | Capacity | Pcs/Pack |
|------------|----------|----------|
| 502.303.01 | 10 µl    | 1000     |
| 502.303.03 | 200 µl   | 1000     |
| 502.303.04 | 1000 µl  | 1000     |
| 502.303.05 | 5000 µl  | 100      |
| 502.303.06 | 10000 µl | 100      |





Multichannel  
Micropipette

High Performance Micro Volume Pipette

- Fully autoclavable.
- UV resistance.
- "CE"mark awarded.
- Click-stop system for digital volume setting.
- Ergonomic Design ensuring light weight & soft plunger movement.
- Two step plunger operation allows "reverse pipetting technique".
- Calibration as per DIN 12650 & EN-ISO 8655 standards.
- High accuracy and precision guaranteed.
- Individual serial No. permanently marked on each pipette.
- Calibration report enclosed with every pipette.
- Color coded for easy identification.
- Manifold can rotate 360° to allow convenient pipetting angle.
- One hand tip ejection.

Eight Channel Micropipette

| Item Code  | Volume Range | Increment | Pcs/Pack | Colour       |
|------------|--------------|-----------|----------|--------------|
| 500.303.14 | 0.5 - 10 µL  | 0.1 µL    | 1        | Purple       |
| 500.303.15 | 5 - 50 µL    | 0.5 µL    | 1        | Red          |
| 500.303.16 | 10 - 100 µL  | 0.5 µL    | 1        | Orange       |
| 500.303.17 | 20 - 200 µL  | 0.5 µL    | 1        | Yellow       |
| 500.303.18 | 30 - 300 µL  | 1.0 µL    | 1        | Light Orange |

Twelve Channel Micropipette

| Item Code  | Volume Range | Increment | Pcs/Pack | Colour       |
|------------|--------------|-----------|----------|--------------|
| 500.303.19 | 0.5 - 10 µL  | 0.1 µL    | 1        | Purple       |
| 500.303.20 | 5 - 50 µL    | 0.5 µL    | 1        | Red          |
| 500.303.21 | 10 - 100 µL  | 0.5 µL    | 1        | Orange       |
| 500.303.22 | 20 - 200 µL  | 0.5 µL    | 1        | Yellow       |
| 500.303.23 | 30 - 300 µL  | 1.0 µL    | 1        | Light Orange |



Micro Tip Box

moulded in Polypropylene and are therefore autoclavable. The Box itself is clear providing an excellent view of the tips inside while a table like structure is provided inside to hold the tips. The tip holding spaces are uniformly placed to facilitate the use of multi channel pipettes. The cover is joined to the base through ball catcher hinges and provides excellent protection to the tips.

**Material :** Polypropylene with improved robust hinge design which prevents the top from being easily disengaged from the bottom of box.

| Cat. No.   | Capacity                         | Pcs/Pack |
|------------|----------------------------------|----------|
| 157.303.03 | For 96 Micro Tips of 2-10µl      | 6        |
| 157.303.04 | For 96 Micro Tips of 2-200µl     | 6        |
| 157.303.05 | For 100 Micro Tips of 200-1000µl | 6        |

Micro  
Tip Box





## Bottle Top Dispenser



### SPECIALLY DESIGNED VOLUME ADJUSTMENT KNOB

Convenient and easy volume setting with minimal force ensuring no fatigue or strain. A 270 degree turn in the clockwise and anticlockwise direction ensures locking and unlocking respectively.

Bottle Top  
Dispenser



ISO 9001:2008



DAkkS  
Laboratory Accredited





## Bottle Top Dispenser-Research Fully Autoclavable

Glassco Bottle top dispenser is another genius of its strong R & D base. Responding to the needs of the present generation, Glassco is proud to offer its NEW BOTTLE TOP DISPENSER which is an unique combination of competitive pricing and high performance.

All wetted parts are PTFE, FEP and Borosilicate Glass only which allows the instrument to be used with wide variety of laboratory chemicals.

High precision and accuracy is ensured through careful selection of raw material and several stages of strict quality checks during manufacturing process.

Each instrument is individually calibrated in ISO 17025 accredited laboratory in accordance with ISO 8655 standards and comes with Individual Calibration certificate.

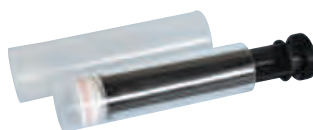
### Features :

- Available in seven volume ranges :
  - a. 0.25-2.5 ml
  - b. 0.5-5 ml
  - c. 1-10 ml
  - d. 2.5-30 ml
  - e. 5-60 ml
  - f. 10-100 ml
  - g. 50-400 ml
- Smooth, effortless plunger movement and bubble free dispensing.
- Easy to dis-assemble for cleaning and servicing.
- Instrument is fully autoclavable at 121°C, 15psi. for 10 - 15 mins.



### PTFE PISTON :

Specially designed PTFE Piston ensures wiper-like smooth, effortless movement and high accuracy.



### GLASS BARREL PROTECTION :

Glass Barrel is protected by a polypropylene sleeve. It also ensures no glass splitting in case of any accidental breakage.



### ADAPTORS :

Adaptors to fit most of the laboratory reagent bottles are provided in the following sizes : 28, 30, 32, 36, 40 & 45mm.



## Dispensers

Simple, user friendly instrument suitable for all laboratory applications except HF.

Strict quality control at all steps of manufacturing ensures high reliability, accuracy and precision.



### SPECIALLY DESIGNED VOLUME ADJUSTMENT KNOB

Convenient and easy volume setting with minimal force ensuring no fatigue or strain. A 270 degree turn in the clockwise and anticlockwise direction ensures locking and unlocking respectively.



### ADJUSTABLE DELIVERY NOZZLE :

Adjustable delivery nozzle to facilitate dispensing ease in all demanding laboratory conditions.



### NOZZLE CAP :

Nozzle cap prevents any unwanted drop on the work space and avoids contact with hazardous chemicals.



### VALVE MANIFOLD FOR LEAK PROOFING:

Specially designed, springless, PTFE valve manifold ensures excellent chemical compatibility and leak proof valve functioning.





**CALIBRATION :**  
Specially designed calibration tool is provided for convenient and quick In-lab user re-calibration. This is in compliance with GLO/ISO Norms.

Removable Cap for Calibration



Calibration Tool



Component Description

| Component                  | Description  |
|----------------------------|--|
| Piston                     | PTFE   |
| Cylinder                   | Glass  |
| Volume Adjustment Knob     | Screw Type   |
| Valve Housing              | PTFE   |
| Valve Assembly             | Glass Ball & Seat  |
| Discharge Assembly         | PTFE   |
| Delivery Tube              | FEP  |
| Inlet Tube                 | FEP  |
| Calibration                | Individually calibrated and certified. In-lab easy Calibration by the user is also possible. |
| Accuracy & Reproducibility | In accordance with ISO 8655 standards.   |
| Compatibility              | Excellent compatibility with all reagents except HF  |

Specifications & Ordering Information

|            |             |           | ISO 8655 Specifications |       |               |       | Glassco Specifications |       |               |       |
|------------|-------------|-----------|-------------------------|-------|---------------|-------|------------------------|-------|---------------|-------|
| Model No.  | Vol. Range  | Increment | Accuracy<br>±% ± ml     |       | CV<br>±% ± ml |       | Accuracy<br>±% ± ml    |       | CV<br>±% ± ml |       |
| 500.404.01 | 0.25-2.5 ml | 0.05 ml   | 0.6                     | 0.015 | 0.2           | 0.005 | 0.6                    | 0.015 | 0.2           | 0.005 |
| 500.404.02 | 0.5-5 ml    | 0.1 ml    | 0.6                     | 0.030 | 0.2           | 0.010 | 0.5                    | 0.025 | 0.1           | 0.005 |
| 500.404.03 | 1-10 ml     | 0.2 ml    | 0.6                     | 0.060 | 0.2           | 0.020 | 0.5                    | 0.050 | 0.1           | 0.010 |
| 500.404.04 | 2.5-30 ml   | 0.5 ml    | 0.6                     | 0.180 | 0.2           | 0.060 | 0.5                    | 0.150 | 0.1           | 0.030 |
| 500.404.05 | 5-60 ml     | 1.0 ml    | 0.6                     | 0.360 | 0.2           | 0.120 | 0.5                    | 0.300 | 0.1           | 0.060 |
| 500.404.06 | 10-100 ml   | 2.0 ml    | 0.6                     | 0.600 | 0.2           | 0.200 | 0.5                    | 0.500 | 0.1           | 0.100 |
| 500.404.07 | 50-400 ml   | 5.0 ml    | 0.6                     | 2.400 | 0.2           | 0.800 | 0.5                    | 2.000 | 0.1           | 0.400 |





Separating &  
Dropping  
Funnels



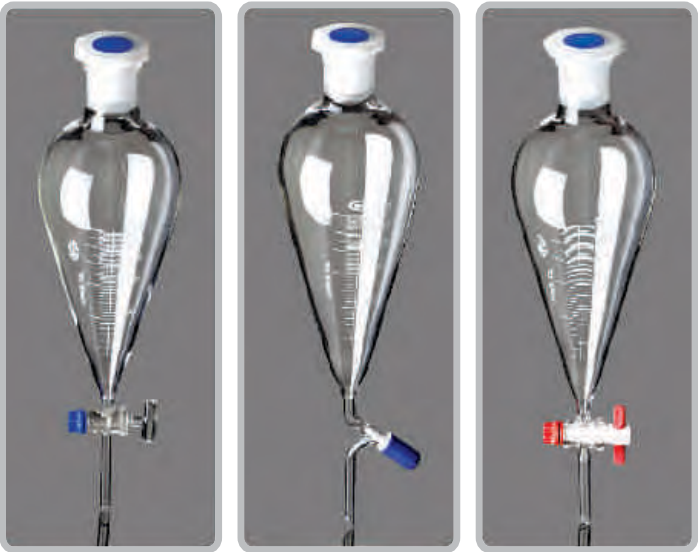
# Squibb Separating Funnels



Separating and Dropping Funnels are produced from ASTM E-438 TYPE-1 CLASS A BORO 3.3 heat resistant glass. All these flasks are manufactures as per **DIN ISO 4800** standard . The printing is done in white colour.

**Separating Funnel Squibb Shape, with PP Stopper as per ISO 4800 Standards.**

| CAT. NO.PLAIN | CAT NO.WITH GRADUATION | CAPACITY |       |      |                |           |
|---------------|------------------------|----------|-------|------|----------------|-----------|
|               |                        |          | N/S   | BORE | STOP COCK TYPE | PCS/ PACK |
| 147.202.02    | 147.209.02             | 50ML     | 19/26 | 2.5  | SOLID GLASS    | 1         |
| 147.202.03    | 147.209.03             | 100ML    | 19/26 | 2.5  | SOLID GLASS    | 1         |
| 147.202.04    | 147.209.04             | 250ML    | 29/32 | 4    | SOLID GLASS    | 1         |
| 147.202.05    | 147.209.05             | 500ML    | 29/32 | 4    | SOLID GLASS    | 1         |
| 147.202.06    | 147.209.06             | 1000ML   | 29/32 | 6    | SOLID GLASS    | 1         |
| 147.202.07    | 147.209.07             | 2000ML   | 29/32 | 6    | SOLID GLASS    | 1         |
| 148.202.02    | 148.209.02             | 50ML     | 19/26 | 2.5  | NEEDLE VALVE   | 1         |
| 148.202.03    | 148.209.03             | 100ML    | 19/26 | 2.5  | NEEDLE VALVE   | 1         |
| 148.202.04    | 148.209.04             | 250ML    | 29/32 | 4    | NEEDLE VALVE   | 1         |
| 148.202.05    | 148.209.05             | 500ML    | 29/32 | 4    | NEEDLE VALVE   | 1         |
| 148.202.06    | 148.209.06             | 1000ML   | 29/32 | 6    | NEEDLE VALVE   | 1         |
| 148.202.07    | 148.209.07             | 2000ML   | 29/32 | 6    | NEEDLE VALVE   | 1         |
| 149.202.02    | 149.209.02             | 50ML     | 19/26 | 2.5  | PTFE           | 1         |
| 149.202.03    | 149.209.03             | 100ML    | 19/26 | 2.5  | PTFE           | 1         |
| 149.202.04    | 149.209.04             | 250ML    | 29/32 | 4    | PTFE           | 1         |
| 149.202.05    | 149.209.05             | 500ML    | 29/32 | 4    | PTFE           | 1         |
| 149.202.06    | 149.209.06             | 1000ML   | 29/32 | 6    | PTFE           | 1         |
| 149.202.07    | 149.209.07             | 2000ML   | 29/32 | 6    | PTFE           | 1         |



Graduated

## Separating Funnel, with PTFE Key Stopcock

These funnels are manufactured from ASTM E 438 TYPE 1 CLASS A BORO 3.3 glass which meet **ASTM E 1096** specification. The flasks come with PTFE KEY STOPCOCK and PP stopper. The flasks are printed in white colour enamel.

| Catalogue No. | Capacity | Stop Cock Size | Stopper No. | Qty Per Pack |
|---------------|----------|----------------|-------------|--------------|
| 149.402.03    | 125ml    | 2              | 22          | 1            |
| 149.402.04    | 250ml    | 4              | 22          | 1            |
| 149.402.05    | 500ml    | 4              | 27          | 1            |
| 149.402.06    | 1000ml   | 4              | 27          | 1            |
| 149.402.07    | 2000ml   | 6              | 38          | 1            |





# Pear Separating Funnels

**Separating Funnel Pear (ISO Shape), with PP Stopper**  
as per **ISO 4800 Standards**.

| CAT.<br>NO.<br>PLAIN | CAPACITY |       |      |                   |              |
|----------------------|----------|-------|------|-------------------|--------------|
|                      |          | N/S   | BORE | STOP COCK<br>TYPE | PCS/<br>PACK |
| 150.202.02           | 50ML     | 19/26 | 2.5  | SOLID GLASS       | 1            |
| 150.202.03           | 100ML    | 19/26 | 2.5  | SOLID GLASS       | 1            |
| 150.202.04           | 250ML    | 29/32 | 4    | SOLID GLASS       | 1            |
| 150.202.05           | 500ML    | 29/32 | 4    | SOLID GLASS       | 1            |
| 150.202.06           | 1000ML   | 29/32 | 6    | SOLID GLASS       | 1            |
| 150.202.07           | 2000ML   | 29/32 | 6    | SOLID GLASS       | 1            |
| 151.202.02           | 50ML     | 19/26 | 2.5  | NEEDLE VALVE      | 1            |
| 151.202.03           | 100ML    | 19/26 | 2.5  | NEEDLE VALVE      | 1            |
| 151.202.04           | 250ML    | 29/32 | 4    | NEEDLE VALVE      | 1            |
| 151.202.05           | 500ML    | 29/32 | 4    | NEEDLE VALVE      | 1            |
| 151.202.06           | 1000ML   | 29/32 | 6    | NEEDLE VALVE      | 1            |
| 151.202.07           | 2000ML   | 29/32 | 6    | NEEDLE VALVE      | 1            |
| 152.202.02           | 50ML     | 19/26 | 2.5  | PTFE              | 1            |
| 152.202.03           | 100ML    | 19/26 | 2.5  | PTFE              | 1            |
| 152.202.04           | 250ML    | 29/32 | 4    | PTFE              | 1            |
| 152.202.05           | 500ML    | 29/32 | 4    | PTFE              | 1            |
| 152.202.06           | 1000ML   | 29/32 | 6    | PTFE              | 1            |
| 152.202.07           | 2000ML   | 29/32 | 6    | PTFE              | 1            |





# Graduated Dropping Funnels

Dropping Funnel Cylindrical, with PP Stopper as per ISO 4800 Standards



| CAT. NO.   | CAPACITY |        |      |                |          |
|------------|----------|--------|------|----------------|----------|
|            |          | N/S    | BORE | STOP COCK TYPE | PCS/PACK |
| 154.203.02 | 50ML     | 14/23  | 2.5  | SOLID GLASS    | 1        |
| 154.204.02 | 50ML     | 29 /32 | 2.5  | SOLID GLASS    | 1        |
| 154.203.03 | 100ML    | 14/23  | 2.5  | SOLID GLASS    | 1        |
| 154.204.03 | 100ML    | 29/32  | 2.5  | SOLID GLASS    | 1        |
| 154.202.04 | 250ML    | 29/32  | 4    | SOLID GLASS    | 1        |
| 154.202.05 | 500ML    | 29/32  | 4    | SOLID GLASS    | 1        |
| 154.202.06 | 1000ML   | 29/32  | 6    | SOLID GLASS    | 1        |
| 156.203.02 | 50ML     | 14/23  | 2.5  | NEEDLE VALVE   | 1        |
| 156.204.02 | 50ML     | 29 /32 | 2.5  | NEEDLE VALVE   | 1        |
| 156.203.03 | 100ML    | 14/23  | 2.5  | NEEDLE VALVE   | 1        |
| 156.204.03 | 100ML    | 29/32  | 2.5  | NEEDLE VALVE   | 1        |
| 156.202.04 | 250ML    | 29/32  | 4    | NEEDLE VALVE   | 1        |
| 156.202.05 | 500ML    | 29/32  | 4    | NEEDLE VALVE   | 1        |
| 156.202.06 | 1000ML   | 29/32  | 6    | NEEDLE VALVE   | 1        |
| 158.203.02 | 50ML     | 14/23  | 2.5  | PTFE           | 1        |
| 158.204.02 | 50ML     | 29 /32 | 2.5  | PTFE           | 1        |
| 158.203.03 | 100ML    | 14/23  | 2.5  | PTFE           | 1        |
| 158.204.03 | 100ML    | 29/32  | 2.5  | PTFE           | 1        |
| 158.202.04 | 250ML    | 29/32  | 4    | PTFE           | 1        |
| 158.202.05 | 500ML    | 29/32  | 4    | PTFE           | 1        |
| 158.202.06 | 1000ML   | 29/32  | 6    | PTFE           | 1        |





## Separating Funnels

# Gilson Funnels

Separating  
Funnel  
Gilson

### Separating Funnel Gilson, with PP Stopper

| CAT NO.    | CAPACITY |       |           |                |          |
|------------|----------|-------|-----------|----------------|----------|
|            |          | N/S   | BORE SIZE | STOP COCK TYPE | PCS/PACK |
| 159.202.01 | 50ML     | 19/26 | 2.5       | SOLID GLASS    | 1        |
| 159.202.02 | 100ML    | 19/26 | 2.5       | SOLID GLASS    | 1        |
| 159.202.03 | 250ML    | 29/32 | 4         | SOLID GLASS    | 1        |
| 159.202.04 | 500ML    | 29/32 | 4         | SOLID GLASS    | 1        |
| 159.202.05 | 1000ML   | 29/32 | 6         | SOLID GLASS    | 1        |
| 159.202.06 | 2000ML   | 29/32 | 6         | SOLID GLASS    | 1        |
| 160.202.01 | 50ML     | 19/26 | 2.5       | PTFE           | 1        |
| 160.202.02 | 100ML    | 19/26 | 2.5       | PTFE           | 1        |
| 160.202.03 | 250ML    | 29/32 | 4         | PTFE           | 1        |
| 160.202.04 | 500ML    | 29/32 | 4         | PTFE           | 1        |
| 160.202.05 | 1000ML   | 29/32 | 6         | PTFE           | 1        |
| 160.202.06 | 2000ML   | 29/32 | 6         | PTFE           | 1        |



Separating  
Funnel  
Holder



### Separatory Funnel Holder

non-corrosive Separatory Funnel Holder, moulded in Polypropylene, has a front opening which provides clear view of the solution and allows unobstructed placement of separating funnels. Two tapped wedges are provided to ensure firm grip on rods having dia 1/2" or 3/5".

Material : Polypropylene

| Cat No.    | Capacity                | Pcs/Pack |
|------------|-------------------------|----------|
| 114.303.01 | Separator Funnel Holder | 12       |

### Separatory Funnel

is made of Polypropylene, giving it excellent contact clarity and strength. This pear shaped, autoclavable separating funnel has a leakproof threaded screw cap. The Polypropylene stopcock, fitted with a self lubricating PTFE plug, is push fitted to the stem of the separatory funnel.

Material : Polypropylene

| Cat No.    | Capacity | Pcs/Pack |
|------------|----------|----------|
| 181.303.01 | 100 ml   | 2        |
| 181.303.02 | 250 ml   | 2        |
| 181.303.03 | 500 ml   | 2        |

Separating  
Funnel





**Separating Funnel Pear shape, with PP Stopper**  
with socket & cone

| CAT NO.    | CAPACITY |                   |           |                |           |
|------------|----------|-------------------|-----------|----------------|-----------|
|            |          | Socket & Cone N/S | BORE SIZE | STOP COCK TYPE | PCS/ PACK |
| 162.202.03 | 50ML     | 19/26             | 2.5       | SOLID GLASS    | 1         |
| 162.202.05 | 100ML    | 19/26             | 2.5       | SOLID GLASS    | 1         |
| 162.204.06 | 250ML    | 29/32             | 4         | SOLID GLASS    | 1         |
| 162.204.08 | 500ML    | 29/32             | 4         | SOLID GLASS    | 1         |
| 162.204.11 | 1000ML   | 29/32             | 6         | SOLID GLASS    | 1         |
| 163.202.03 | 50ML     | 19/26             | 2.5       | NEEDLE VALVE   | 1         |
| 163.202.05 | 100ML    | 19/26             | 2.5       | NEEDLE VALVE   | 1         |
| 163.204.06 | 250ML    | 29/32             | 4         | NEEDLE VALVE   | 1         |
| 163.204.08 | 500ML    | 29/32             | 4         | NEEDLE VALVE   | 1         |
| 163.204.11 | 1000ML   | 29/32             | 6         | NEEDLE VALVE   | 1         |
| 164.202.03 | 50ML     | 19/26             | 2.5       | PTFE           | 1         |
| 164.202.05 | 100ML    | 19/26             | 2.5       | PTFE           | 1         |
| 164.204.06 | 250ML    | 29/32             | 4         | PTFE           | 1         |
| 164.204.08 | 500ML    | 29/32             | 4         | PTFE           | 1         |
| 164.204.11 | 1000ML   | 29/32             | 6         | PTFE           | 1         |





# Pear Separating Funnels

Separating Funnel Pear Shape with stem inside cone

| CAT NO.    | CAPACITY |                   |           |                |          |
|------------|----------|-------------------|-----------|----------------|----------|
|            |          | Socket & Cone N/S | BORE SIZE | STOP COCK TYPE | PCS/PACK |
| 162.210.03 | 50ML     | 19/26             | 2.5       | SOLID GLASS    | 1        |
| 162.210.05 | 100ML    | 19/26             | 2.5       | SOLID GLASS    | 1        |
| 162.210.06 | 250ML    | 29/32             | 4         | SOLID GLASS    | 1        |
| 162.210.08 | 500ML    | 29/32             | 4         | SOLID GLASS    | 1        |
| 162.210.10 | 1000ML   | 29/32             | 6         | SOLID GLASS    | 1        |
| 164.210.03 | 50ML     | 19/26             | 2.5       | PTFE           | 1        |
| 164.210.05 | 100ML    | 19/26             | 2.5       | PTFE           | 1        |
| 164.210.06 | 250ML    | 29/32             | 4         | PTFE           | 1        |
| 164.210.08 | 500ML    | 29/32             | 4         | PTFE           | 1        |
| 164.210.10 | 1000ML   | 29/32             | 6         | PTFE           | 1        |





# Dropping Funnels

Separating Funnel, Cylindrical, with PP Stopper, with Socket and Cone. DIN 4800



| CAT NO.     | CAPACITY |                   |           |                |          |
|-------------|----------|-------------------|-----------|----------------|----------|
|             |          | Socket & Cone N/S | BORE SIZE | STOP COCK TYPE | PCS/PACK |
| 165.202.02  | 50ML     | 14/23             | 2.5       | SOLID GLASS    | 1        |
| 165.202.02A | 50ML     | 29/32             | 2.5       | SOLID GLASS    | 1        |
| 165.202.03  | 100ML    | 14/23             | 2.5       | SOLID GLASS    | 1        |
| 165.202.03A | 100ML    | 29/32             | 2.5       | SOLID GLASS    | 1        |
| 165.202.05A | 250ML    | 29/32             | 4         | SOLID GLASS    | 1        |
| 165.202.06A | 500ML    | 29/32             | 4         | SOLID GLASS    | 1        |
| 165.202.07A | 1000ML   | 29/32             | 6         | SOLID GLASS    | 1        |
| 166.202.02  | 50ML     | 14/23             | 2.5       | NEEDLE VALVE   | 1        |
| 166.202.02A | 50ML     | 29/32             | 2.5       | NEEDLE VALVE   | 1        |
| 166.202.03  | 100ML    | 14/23             | 2.5       | NEEDLE VALVE   | 1        |
| 166.202.03A | 100ML    | 29/32             | 2.5       | NEEDLE VALVE   | 1        |
| 166.202.05A | 250ML    | 29/32             | 4         | NEEDLE VALVE   | 1        |
| 166.202.06A | 500ML    | 29/32             | 4         | NEEDLE VALVE   | 1        |
| 166.202.07A | 1000ML   | 29/32             | 6         | NEEDLE VALVE   | 1        |
| 167.202.02  | 50ML     | 14/23             | 2.5       | PTFE           | 1        |
| 167.202.02A | 50ML     | 29/32             | 2.5       | PTFE           | 1        |
| 167.202.03  | 100ML    | 14/23             | 2.5       | PTFE           | 1        |
| 167.202.03A | 100ML    | 29/32             | 2.5       | PTFE           | 1        |
| 167.202.05A | 250ML    | 29/32             | 4         | PTFE           | 1        |
| 167.202.06A | 500ML    | 29/32             | 4         | PTFE           | 1        |
| 167.202.07A | 1000ML   | 29/32             | 6         | PTFE           | 1        |



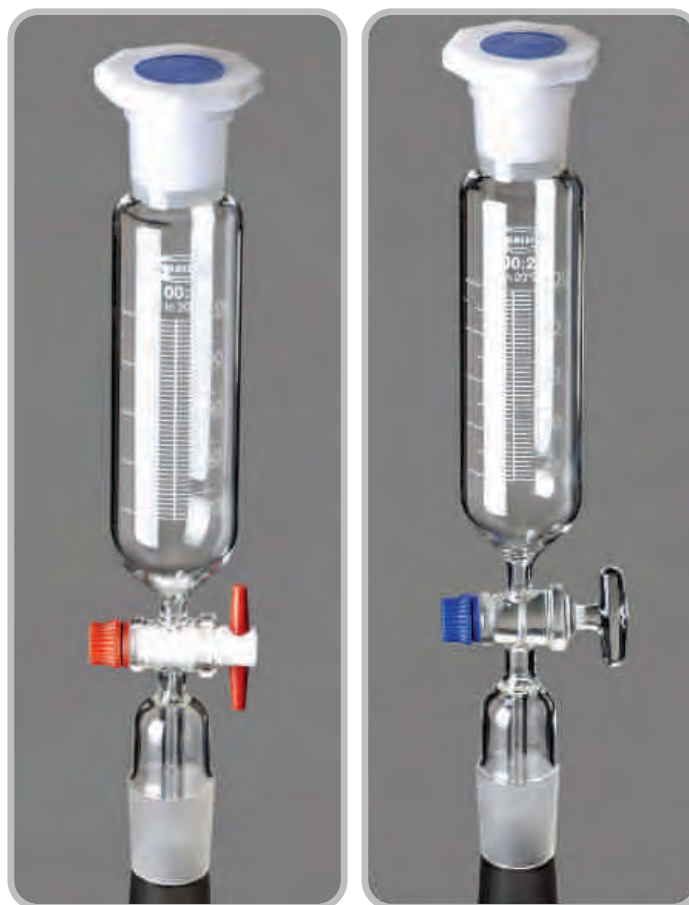


## Dropping Funnels

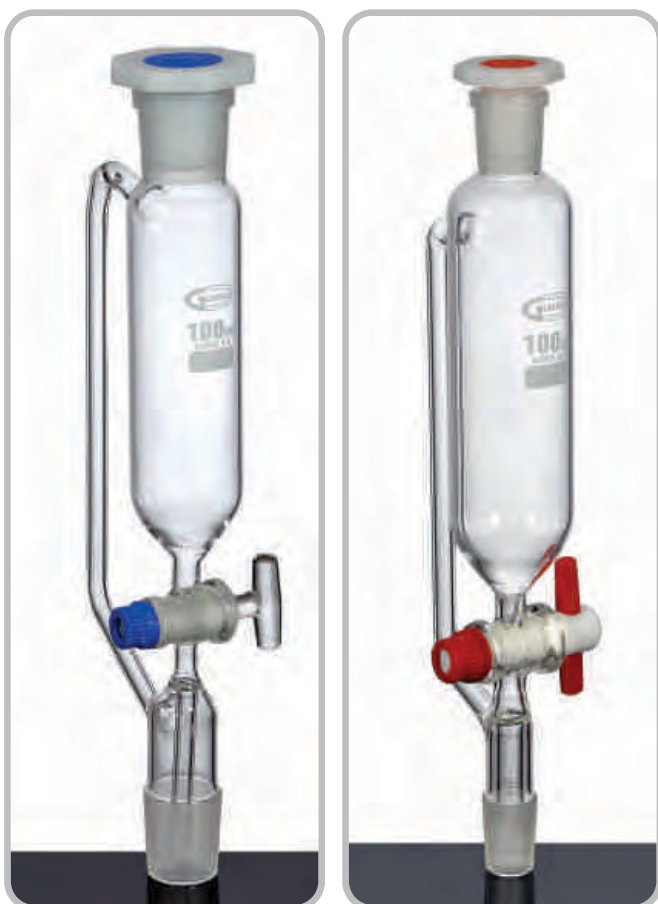
Dropping  
Funnel  
Cylindrical

**Dropping Funnel, Cylindrical with stem inside cone. DIN 4800**

| CAT NO.     | CAPACITY |                   |           |                |          |
|-------------|----------|-------------------|-----------|----------------|----------|
|             |          | Socket & Cone N/S | BORE SIZE | STOP COCK TYPE | PCS/PACK |
| 165.210.02  | 50ML     | 14/23             | 2.5       | SOLID GLASS    | 1        |
| 165.210.02A | 50ML     | 29/32             | 2.5       | SOLID GLASS    | 1        |
| 165.210.03  | 100ML    | 14/23             | 2.5       | SOLID GLASS    | 1        |
| 165.210.03A | 100ML    | 29/32             | 2.5       | SOLID GLASS    | 1        |
| 165.210.05  | 250ML    | 29/32             | 4         | SOLID GLASS    | 1        |
| 165.210.06  | 500ML    | 29/32             | 4         | SOLID GLASS    | 1        |
| 165.210.07  | 1000ML   | 29/32             | 6         | SOLID GLASS    | 1        |
| 167.210.02  | 50ML     | 14/23             | 2.5       | PTFE           | 1        |
| 167.210.02A | 50ML     | 29/32             | 2.5       | PTFE           | 1        |
| 167.210.03  | 100ML    | 14/23             | 2.5       | PTFE           | 1        |
| 167.210.03A | 100ML    | 29/32             | 2.5       | PTFE           | 1        |
| 167.210.05  | 250ML    | 29/32             | 4         | PTFE           | 1        |
| 167.210.06  | 500ML    | 29/32             | 4         | PTFE           | 1        |
| 167.210.07  | 1000ML   | 29/32             | 6         | PTFE           | 1        |



Pressure  
Equalizing  
Funnel



**Pressure Equalizing Funnels**

| CAT NO.     | CAPACITY |                     |           |                |          |
|-------------|----------|---------------------|-----------|----------------|----------|
|             |          | SOCKET AND CONE N/S | BORE SIZE | STOP COCK TYPE | PCS/PACK |
| 168.202.01  | 50ML     | 14/23               | 2.5       | SOLID GLASS    | 1        |
| 168.202.01A | 50ML     | 29/32               | 2.5       | SOLID GLASS    | 1        |
| 168.202.02A | 100ML    | 14/23               | 2.5       | SOLID GLASS    | 1        |
| 168.202.03A | 100ML    | 29/32               | 2.5       | SOLID GLASS    | 1        |
| 168.202.04A | 250ML    | 29/32               | 4         | SOLID GLASS    | 1        |
| 168.202.05A | 500ML    | 29/32               | 4         | SOLID GLASS    | 1        |
| 169.202.01  | 50ML     | 14/23               | 2.5       | PTEF           | 1        |
| 169.202.01A | 50ML     | 29/32               | 2.5       | PTEF           | 1        |
| 169.202.02A | 100ML    | 14/23               | 2.5       | PTEF           | 1        |
| 169.202.03A | 100ML    | 29/32               | 2.5       | PTEF           | 1        |
| 169.202.04A | 250ML    | 29/32               | 4         | PTEF           | 1        |
| 169.202.05A | 500ML    | 29/32               | 4         | PTEF           | 1        |





# Pressure Equalizing Funnels

Pressure Equalizing Funnels, Pear Shape

| CAT NO.     | CAPACITY |                     |           |                |           |
|-------------|----------|---------------------|-----------|----------------|-----------|
|             |          | SOCKET AND CONE N/S | BORE SIZE | STOP COCK TYPE | PCS/ PACK |
| 170.202.01  | 50ML     | 14/23               | 2.5       | SOLID GLASS    | 1         |
| 170.202.02A | 100ML    | 14/23               | 2.5       | SOLID GLASS    | 1         |
| 170.202.04A | 250ML    | 29/32               | 4         | SOLID GLASS    | 1         |
| 170.202.05A | 500ML    | 29/32               | 4         | SOLID GLASS    | 1         |
| 171.202.01  | 50ML     | 14/23               | 2.5       | PTFE           | 1         |
| 171.202.02A | 100ML    | 14/23               | 2.5       | PTFE           | 1         |
| 171.202.04A | 250ML    | 29/32               | 4         | PTFE           | 1         |
| 171.202.05A | 500ML    | 29/32               | 4         | PTFE           | 1         |





Condensers  
& Assemblies

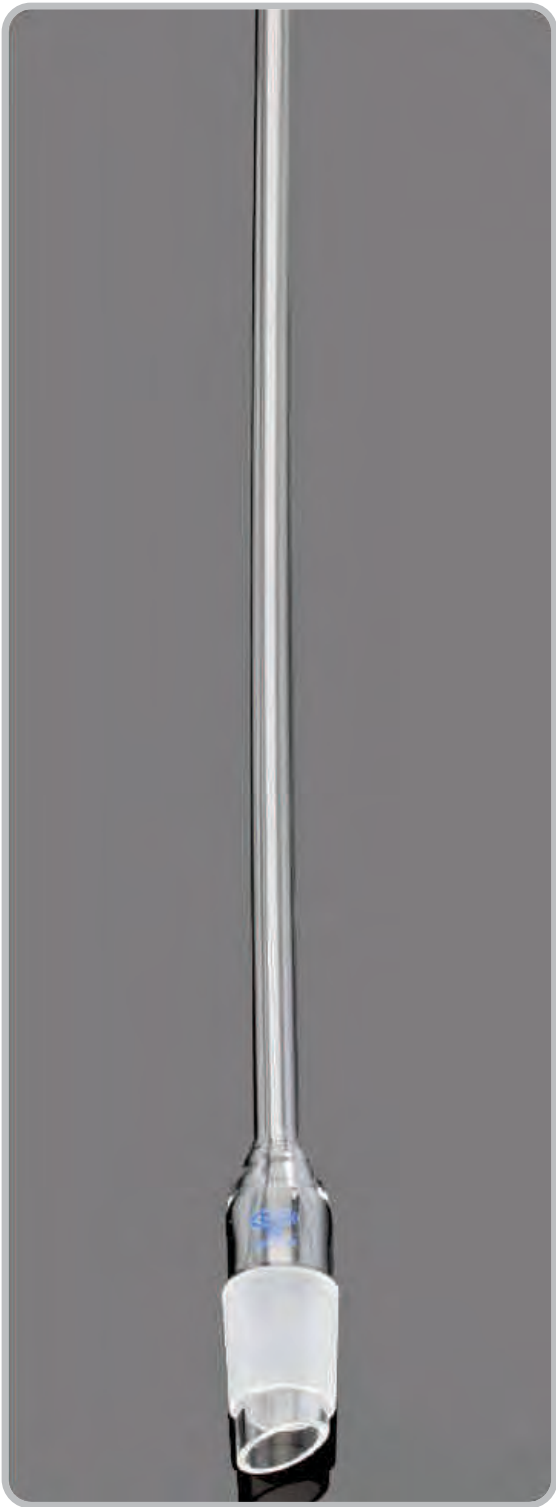


# Air Condensers



**Air Condensers**, Manufactured from **ASTM E 438** type **1 Class A boro 3.3 Glass**. These are used for the condensation of material with boiling point above 150c.

| CAT NO.    | Socket |       |                        |           |
|------------|--------|-------|------------------------|-----------|
|            |        | Cone  | Effective Length (mm.) | Pcs/ Pack |
| 181.202.01 | 14/23  | 14/23 | 200                    | 1         |
| 181.202.02 | 19/26  | 19/26 | 200                    | 1         |
| 181.202.03 | 24/29  | 24/29 | 250                    | 1         |
| 181.202.04 | 19/26  | 19/26 | 400                    | 1         |
| 181.202.05 | 24/29  | 24/29 | 500                    | 1         |
| 181.202.06 | 34/35  | 34/35 | 500                    | 1         |
| 181.202.07 | 19/26  | 19/26 | 600                    | 1         |
| 181.202.08 | 24/29  | 24/29 | 750                    | 1         |
| 181.202.09 | -      | 19/26 | 750                    | 1         |
| 181.202.10 | -      | 24/29 | 750                    | 1         |
| 181.202.11 | -      | 19/26 | 1000                   | 1         |
| 181.202.12 | -      | 24/29 | 1000                   | 1         |



PS : All Condensers can be ordered with ASTM Joint Sizes on request.





## Liebig Condenser

**Manufactured from ASTM E428 type 1 Class A Boro 3.3 Glass.** These condenser comes with Glass & Plastic screw thread connector & is highly efficient with large cooling surface, **DIN 12576**. This Condenser is suitable for Distillation & Reflux applications.

| CAT NO .     | SOCKET | EFFECTIVE LENGTH (mm) |       |              |           |
|--------------|--------|-----------------------|-------|--------------|-----------|
|              |        |                       | CONE  | CONNECTOR    | Pcs/ Pack |
| 182.181.01   | 14/23  | 160                   | 14/23 | SCREW THREAD | 1         |
| 182.181.01A  | 19/26  | 160                   | 19/26 | SCREW THREAD | 1         |
| 182.181.02   | 19/26  | 250                   | 19/26 | SCREW THREAD | 1         |
| 182.181.03   | 24/29  | 250                   | 24/29 | SCREW THREAD | 1         |
| 182.181.3A   | 29/32  | 250                   | 29/32 | SCREW THREAD | 1         |
| 182.181.04 * | 19/26  | 300                   | 19/26 | SCREW THREAD | 1         |
| 182.181.05 * | 24/29  | 300                   | 24/29 | SCREW THREAD | 1         |
| 182.181.06 * | 29/32  | 300                   | 29/32 | SCREW THREAD | 1         |
| 182.181.10   | 24/29  | 400                   | 24/29 | SCREW THREAD | 1         |
| 182.181.11   | 29/32  | 400                   | 29/32 | SCREW THREAD | 1         |
| 182.202.01   | 14/23  | 160                   | 14/23 | GLASS        | 1         |
| 182.202.01A  | 19/26  | 160                   | 19/26 | GLASS        | 1         |
| 182.202.02   | 19/26  | 250                   | 19/26 | GLASS        | 1         |
| 182.202.03   | 24/29  | 250                   | 24/29 | GLASS        | 1         |
| 182.202.03A  | 29/32  | 250                   | 29/32 | GLASS        | 1         |
| 182.202.04 * | 19/26  | 300                   | 19/26 | GLASS        | 1         |
| 182.202.05 * | 24/29  | 300                   | 24/29 | GLASS        | 1         |
| 182.202.06 * | 29/32  | 300                   | 29/32 | GLASS        | 1         |
| 182.202.10   | 24/29  | 400                   | 24/29 | GLASS        | 1         |
| 182.202.11   | 29/32  | 400                   | 29/32 | GLASS        | 1         |

\* Non DIN



PS : For All types of Condensers Clamps look at page 115





# Coil Condenser

**Manufactured from ASTM E 438 type 1 Class A boro 3.3 Glass.** These condenser comes with glass connectors and with plastic screw thread connector and is highly efficient with a large cooling surface. This Condenser is suitable for Distillation & Reflux applications.

| CAT NO .    | SOCKET | EFFECTIVE LENGTH (mm) |       |              |           |
|-------------|--------|-----------------------|-------|--------------|-----------|
|             |        |                       | CONE  | CONNECTOR    | Pcs/ Pack |
| 183.181.01  | 14/23  | 160                   | 14/23 | SCREW THREAD | 1         |
| 183.181.01A | 19/26  | 160                   | 19/26 | SCREW THREAD | 1         |
| 183.181.02A | 14/23  | 250                   | 14/23 | SCREW THREAD | 1         |
| 183.181.03  | 19/26  | 250                   | 19/26 | SCREW THREAD | 1         |
| 183.181.04  | 24/29  | 250                   | 24/29 | SCREW THREAD | 1         |
| 183.181.04A | 29/32  | 250                   | 29/32 | SCREW THREAD | 1         |
| 183.181.05  | 24/29  | 300                   | 24/29 | SCREW THREAD | 1         |
| 183.181.06  | 29/32  | 300                   | 29/32 | SCREW THREAD | 1         |
| 183.181.07  | 29/32  | 400                   | 29/32 | SCREW THREAD | 1         |
| 183.202.01  | 14/23  | 160                   | 14/23 | GLASS        | 1         |
| 183.202.01A | 19/26  | 160                   | 19/26 | GLASS        | 1         |
| 183.202.02A | 14/23  | 250                   | 14/23 | GLASS        | 1         |
| 183.202.03  | 19/26  | 250                   | 19/26 | GLASS        | 1         |
| 183.202.04  | 24/29  | 250                   | 24/29 | GLASS        | 1         |
| 183.202.04A | 29/32  | 250                   | 29/32 | GLASS        | 1         |
| 183.202.05  | 24/29  | 300                   | 24/29 | GLASS        | 1         |
| 183.202.06  | 29/32  | 300                   | 29/32 | GLASS        | 1         |
| 183.202.07  | 29/32  | 400                   | 29/32 | GLASS        | 1         |





## Allihin Condenser

**Manufactured from ASTM E 438 type 1 Class A boro 3.3 Glass in compliance with DIN 12581.**

These condensers are ideal for reflux and comes with glass and plastic screw thread connector.

This Condenser having inner bulb section provides increased cooling surface and is ideal for Reflux Applications.

| CAT NO .    | SOCKET | EFFECTIVE LENGTH (mm) |       |              |           |
|-------------|--------|-----------------------|-------|--------------|-----------|
|             |        |                       | CONE  | CONNECTOR    | Pcs/ Pack |
| 190.181.05  | 14/23  | 160                   | 14/23 | SCREW THREAD | 1         |
| 190.181.06  | 19/26  | 160                   | 19/26 | SCREW THREAD | 1         |
| 190.181.07  | 14/23  | 250                   | 14/23 | SCREW THREAD | 1         |
| 190.181.08  | 19/26  | 250                   | 19/26 | SCREW THREAD | 1         |
| 190.181.09  | 24/29  | 250                   | 24/29 | SCREW THREAD | 1         |
| 190.181.09A | 29/32  | 250                   | 29/32 | SCREW THREAD | 1         |
| 190.181.10* | 24/29  | 300                   | 24/29 | SCREW THREAD | 1         |
| 190.181.11* | 29/32  | 300                   | 29/32 | SCREW THREAD | 1         |
| 190.181.12* | 24/29  | 400                   | 24/29 | SCREW THREAD | 1         |
| 190.181.13* | 29/32  | 400                   | 29/32 | SCREW THREAD | 1         |
| 190.202.05  | 14/23  | 160                   | 14/23 | GLASS        | 1         |
| 190.202.06  | 19/26  | 160                   | 19/26 | GLASS        | 1         |
| 190.202.07  | 14/23  | 250                   | 14/23 | GLASS        | 1         |
| 190.202.08  | 19/26  | 250                   | 19/26 | GLASS        | 1         |
| 190.202.09  | 24/29  | 250                   | 24/29 | GLASS        | 1         |
| 190.202.09A | 29/32  | 250                   | 29/32 | GLASS        | 1         |
| 190.202.10* | 24/29  | 300                   | 24/29 | GLASS        | 1         |
| 190.202.11* | 29/32  | 300                   | 29/32 | GLASS        | 1         |
| 190.202.12* | 24/29  | 400                   | 24/29 | GLASS        | 1         |
| 190.202.13* | 29/32  | 400                   | 29/32 | GLASS        | 1         |

\* Non DIN





# Dimroth Condenser

Manufactured from ASTM E 438 type 1 Class A boro 3.3 Glass in compliance with DIN 12591.  
The condenser comes with glass and plastic screw thread connector

| CAT NO .     | SOCKET | APPROX<br>EFFECTIVE<br>LENGTH<br>(mm) |       |              |              |
|--------------|--------|---------------------------------------|-------|--------------|--------------|
|              |        |                                       | CONE  | CONNECTOR    | Pcs/<br>Pack |
| 190.181.01A  | 14/23  | 160                                   | 14/23 | SCREW THREAD | 1            |
| 190.181.02A  | 19/26  | 160                                   | 19/26 | SCREW THREAD | 1            |
| 190.181.03A  | 19/26  | 250                                   | 19/26 | SCREW THREAD | 1            |
| 190.181.04A  | 24/29  | 250                                   | 24/29 | SCREW THREAD | 1            |
| 190.181.05A  | 29/32  | 250                                   | 29/32 | SCREW THREAD | 1            |
| 190.181.06A* | 24/29  | 300                                   | 24/29 | SCREW THREAD | 1            |
| 190.181.07A* | 29/32  | 300                                   | 29/32 | SCREW THREAD | 1            |
| 190.181.08A  | 29/32  | 400                                   | 29/32 | SCREW THREAD | 1            |
| 190.204.01   | 14/23  | 160                                   | 14/23 | GLASS        | 1            |
| 190.204.02   | 19/26  | 160                                   | 19/26 | GLASS        | 1            |
| 190.204.03   | 19/26  | 250                                   | 19/26 | GLASS        | 1            |
| 190.204.04   | 24/29  | 250                                   | 24/29 | GLASS        | 1            |
| 190.204.05   | 29/32  | 250                                   | 29/32 | GLASS        | 1            |
| 190.204.06*  | 24/29  | 300                                   | 24/29 | GLASS        | 1            |
| 190.204.07*  | 29/32  | 300                                   | 29/32 | GLASS        | 1            |
| 190.204.08   | 29/32  | 400                                   | 29/32 | GLASS        | 1            |

\* Non DIN



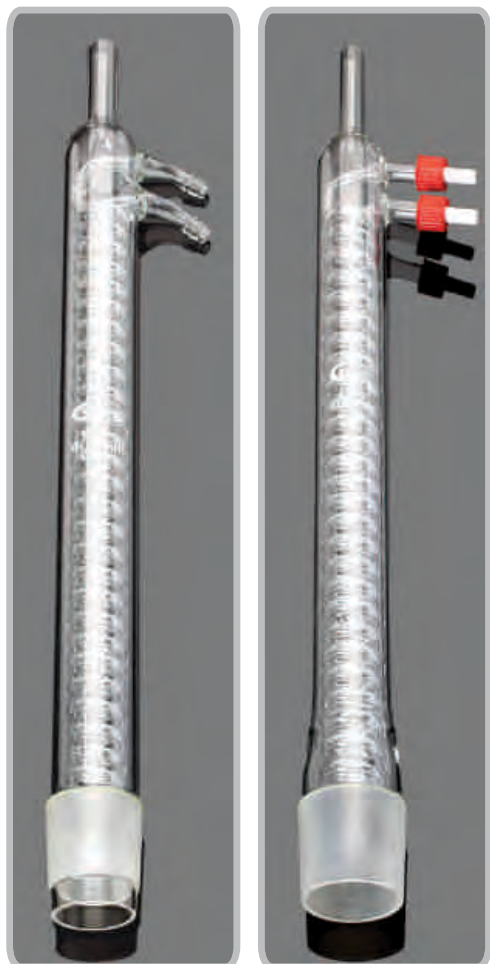


## Condensers for Soxhlet Apparatus

Manufactured from ASTM E 438 type 1 Class a boro 3.3 Glass.  
This condenser come with glass and plastic screw thread connector.

| CAT NO .    | CONE  | EFFECTIVE LENGTH (mm) |              |              |        |
|-------------|-------|-----------------------|--------------|--------------|--------|
|             |       |                       | EXTRACTOR ML | CONNECTOR    | Pc/Pac |
| 191.181.01  | 45/40 | 300                   | 100          | SCREW THREAD | 1      |
| 191.181.01A | 45/40 | 400                   | 250          | SCREW THREAD | 1      |
| 191.181.02  | 60/46 | 400                   | 500          | SCREW THREAD | 1      |
| 191.181.03  | 71/55 | 400                   | 1000         | SCREW THREAD | 1      |
| 191.202.01  | 45/40 | 300                   | 100          | Glass        | 1      |
| 191.202.01A | 45/40 | 400                   | 250          | Glass        | 1      |
| 191.202.02  | 60/46 | 400                   | 500          | Glass        | 1      |
| 191.202.03  | 71/55 | 400                   | 1000         | Glass        | 1      |

Allihin  
condenser



Dimroth  
Condensers

Manufactured from ASTM E 438 type 1 Class a boro 3.3 Glass. This condenser come with glass and plastic screw thread connector.

| CAT NO .    | CONE  | EFFECTIVE LENGTH (mm) |              |              |          |
|-------------|-------|-----------------------|--------------|--------------|----------|
|             |       |                       | EXTRACTOR ML | CONNECTOR    | Pcs/Pack |
| 192.181.01  | 45/40 | 300                   | 100          | SCREW THREAD | 1        |
| 192.181.01A | 45/40 | 400                   | 250          | SCREW THREAD | 1        |
| 192.181.02  | 60/46 | 400                   | 500          | SCREW THREAD | 1        |
| 192.181.03  | 71/55 | 400                   | 1000         | SCREW THREAD | 1        |
| 192.202.01  | 45/40 | 300                   | 100          | Glass        | 1        |
| 192.202.01A | 45/40 | 400                   | 250          | Glass        | 1        |
| 192.202.02  | 60/46 | 400                   | 500          | Glass        | 1        |
| 192.202.03  | 71/55 | 400                   | 1000         | Glass        | 1        |





# Extraction Apparatus



Soxhlet  
Extraction  
Apparatus

Consists of Flask, Extractor and condenser.

| Cat No .   | Extractor cap.(ml) | Extractor Scket | Extractor Cone | Flask Cap | condenser Type | Connector    | Pcs/ Pack |
|------------|--------------------|-----------------|----------------|-----------|----------------|--------------|-----------|
| 210.202.04 | 100                | 45/40           | 29/32          | 250       | ALLIHIN        | SCREW THREAD | 1         |
| 210.202.06 | 250                | 45/40           | 29/32          | 500       | ALLIHIN        | SCREW THREAD | 1         |
| 210.202.08 | 500                | 60/46           | 29/32          | 1000      | ALLIHIN        | SCREW THREAD | 1         |
| 210.202.09 | 1000               | 71/55           | 29/32          | 2000      | ALLIHIN        | SCREW THREAD | 1         |
| 210.202.12 | 100                | 45/40           | 29/32          | 250       | DIMROTH        | SCREW THREAD | 1         |
| 210.202.13 | 150                | 45/40           | 29/32          | 250       | DIMROTH        | SCREW THREAD | 1         |
| 210.202.14 | 250                | 45/40           | 29/32          | 500       | DIMROTH        | SCREW THREAD | 1         |
| 210.202.15 | 500                | 60/46           | 29/32          | 1000      | DIMROTH        | SCREW THREAD | 1         |
| 210.202.16 | 1000               | 71/55           | 29/32          | 2000      | DIMROTH        | SCREW THREAD | 1         |

DIN 12602

Soxhlet  
Extractor



| Cat. No.   | Capacity (ml) | Socket | Cone  | Pcs/ Pack |
|------------|---------------|--------|-------|-----------|
| 211.202.04 | 100           | 45/40  | 29/32 | 1         |
| 211.202.06 | 250           | 45/40  | 29/32 | 1         |
| 211.202.08 | 500           | 60/46  | 29/32 | 1         |
| 211.202.09 | 1000          | 71/55  | 29/32 | 1         |

PS : Soxhlet Extraction Apparatus can also be offered with ASTM Joint sizes on request.

## Utility Sets

This set is ideal for introducing student to the principal techniques of preparative organic chemistry. Although the set is very simple a surprising number of preparations on the 30 g scale can be carried out.

| Cat. No.   | Description                                      |
|------------|--|
| 202.202.01 | Complete set comprising<br>5 items of Glassware. |

| Item No. | Componets              | 29<br>BU/M |
|----------|------------------------|------------|
| 1        | Pear shaped flask 50ml | 1          |
| 2        | Still head             | 1          |
| 3        | Liebig condenser       | 1          |
| 4        | Screw cap adapter      | 1          |
| 5        | Receiver adapter       | 1          |



A highly popular set in schools, collages and universities. It has been purposely designed to cover the essential requirements for the teaching of organic chemistry and is suitable for preparations up to 30g. This is a set which is difficult to beat for versatility.

| Cat. No.   | Description                                      |
|------------|--|
| 203.202.01 | Complete set comprising<br>9 items of Glassware. |

| Item No. | Componets                                     | 27<br>BU/M |
|----------|---|------------|
| 1        | Pear shaped flask 50ml                        | 1          |
| 2        | Still head                                    | 1          |
| 3        | Liebig condenser                              | 1          |
| 4        | Screw cap adapter                             | 1          |
| 5        | Receiver adapter                              | 1          |
| 6        | Air leak/steam inlet tube                     | 1          |
| 7        | Dropping funnel, 50 ml<br>with GP Rotaflo tap | 1          |
| 8        | Stopper                                       | 1          |
| 9        | Thermometer                                   | 1          |





## Utility Sets

For student use in preparation organic chemistry up to the 1501 g scale, this includes all the necessary equipment to allow a wide range of preparation to be carried out. It is also invaluable for industrial laboratories where the amount of preparative work is not great and may occur at infrequent intervals. For such applications, this set has the advantage of covering an extensive field of work and occupying little space when not in use.

| Cat. No.   | Description                                    |
|------------|--|
| 207.202.01 | Complete set comprising 16 items of Glassware. |

| Item No. | Components                | Socket size | Cone size |
|----------|---------------------------|-------------|-----------|
| 1        | Still head                | 14/23       | 19/26     |
| 2        | Receiver                  | 19/26       | 24/29     |
| 3        | Air leak/steam inlet tube | -           | 19/26     |
| 4        | Liebig condenser          | 19/26       | 19/26     |
| 5        | Dropping funnel, 100 ml   | 19/26       | 19/26     |
| 6        | Reducing adapter          | 19/26       | 24/29     |
| 7        | Multiple adapter          | 19/26       | 24/29     |
| 8        | Flask, R.B., 50 ml        | 24/29       | -         |
| 9        | Flask, Erlenmeyer, 250 ml | 24/29       | -         |
| 10       | Flask, R.B., 250 ml       | 24/29       | -         |
| 11       | Stopper                   | -           | 19/26     |
| 12       | Stopper                   | -           | 19/26     |
| 13       | Thermometer Pocket        | -           | 14/23     |
| 14       | Receiver adapter          | 19/26       | -         |
| 15       | Flask, R.B., 100ml        | 24/29       | -         |
| 16       | Stopper                   | -           | 24/29     |

**34 GU**  
**Organic**  
**Chemistry**  
**Set**





General  
Labware



## Beakers

Manufactured from ASTM E 438 TYPE 1 GLASS A BORO 3.3 GLASS. These beakers comply to ISO 3819, DIN 12331 ASTM E - 960 and USP standards. These beakers come with white graduation and marking area for use with an ordinary pencil. The beakers has a uniform wall thickness which make it ideal for heating application. These Beakers have excellent thermal performance and are highly resistant to chemical attack.

These beakers can be provided in White & Blue color printing. For ordering just use the same catalogue number and just mention the colour you need.



Beaker  
Low

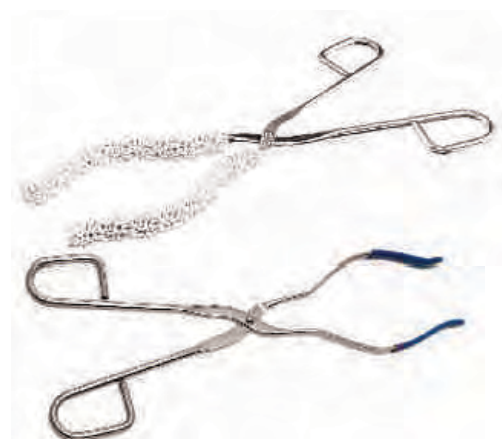
**Beaker, Low form with graduation and spout  
DIN 12331, ISO 3819**

| Cat No.    | Capacity ml | D. (mm) | H. (mm) | Pcs/Pack |
|------------|-------------|---------|---------|----------|
| 229.202.02 | 10          | 26      | 35      | 10       |
| 229.202.03 | 25          | 34      | 50      | 10       |
| 229.202.04 | 50          | 42      | 60      | 10       |
| 229.202.05 | 100         | 50      | 70      | 10       |
| 229.202.06 | 150         | 60      | 80      | 10       |
| 229.202.07 | 250         | 70      | 95      | 10       |
| 229.202.08 | 400         | 80      | 110     | 10       |
| 229.202.09 | 600         | 90      | 125     | 8        |
| 229.202.10 | 1000        | 105     | 145     | 6        |
| 229.202.11 | 2000        | 132     | 185     | 4        |
| 229.202.13 | 3000        | 152     | 210     | 1        |

**Beaker, Tall form with graduation and spout  
DIN 12331, ISO 3819**

| Cat No.    | Capacity ml | D. (mm) | H. (mm) | Pcs/Pack |
|------------|-------------|---------|---------|----------|
| 230.202.02 | 50          | 38      | 70      | 10       |
| 230.202.03 | 100         | 48      | 80      | 10       |
| 230.202.04 | 150         | 54      | 95      | 10       |
| 230.202.05 | 250         | 60      | 120     | 10       |
| 230.202.06 | 400         | 70      | 130     | 10       |
| 230.202.07 | 600         | 80      | 150     | 8        |

Beaker  
Tall



Beaker  
Tong SS

**Beaker Tong, SS**

- Made of stainless steel
- Available in silicon sleeve or in fibre glass yarn to resist direct flame
- Tp hold beakers upto 2 Litres (155mm OD)

| Cat No.    | Type   | Length | Material    | Max Temp | Pcs/Pack |
|------------|--------|--------|-------------|----------|----------|
| 396.303.01 | Beaker | 250 mm | Glass Fibre | 500°C    | 4        |
| 396.303.02 | Beaker | 300 mm | Glass Fibre | 500°C    | 4        |
| 396.303.03 | Beaker | 250 mm | Silicon     | 280°C    | 4        |
| 396.303.04 | Beaker | 300 mm | Silicon     | 280°C    | 4        |





## Beaker, Low Form, with Double Capacity Scale

Beakers are manufactured from ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS, these beakers are made as per **ASTM E 960, TYPE 1** all beakers starting from 20ml have graduation and are printed in white colour enamel. All beakers have slightly flared beaded top for easy pouring

| Catalogue No. | Capacity | Graduation Interval | Graduation Range | Qty Per Pack |
|---------------|----------|---------------------|------------------|--------------|
| 229.402.02    | 10       | ---                 | ---              | 1            |
| 229.402.03    | 20       | 10 mL               | 5-15 mL          | 1            |
| 229.402.03A   | 30       | 10 mL               | 5-25 mL          | 1            |
| 229.402.04    | 50       | 10 mL               | 10-40 mL         | 1            |
| 229.402.05    | 100      | 10 mL               | 20-80 mL         | 1            |
| 229.402.06    | 150      | 20 mL               | 20-140 mL        | 1            |
| 229.402.07    | 250      | 25 mL               | 25-200 mL        | 1            |
| 229.402.08    | 400      | 25 mL               | 25-325 mL        | 1            |
| 229.402.09    | 600      | 50 mL               | 100-500 mL       | 1            |
| 229.402.10    | 1000     | 50 mL               | 100-900 mL       | 1            |
| 229.402.11    | 2000     | 200 mL              | 200-1800 mL      | 1            |
| 229.402.14    | 4000     | 500 mL              | 500-3500 mL      | 1            |

Beaker  
Low Form

NEW

ASTM



Beaker  
Low Form

NEW

ASTM

## Beaker, Low Form, Heavy Wall, with Double Capacity Scale

Beakers are manufactured from ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS, as per **ASTM E 960, TYPE 2** all beakers are printed in white colour enamel. These beakers are stronger than standard beakers and are made from thick wall tube and comes with re-inforced Rim & Spout, which is less prone to breakage during washing, have longer life and increased user safety. This glassware is not recommended for use on hot plates.

| Catalogue No. | Capacity | Graduation Interval | Graduation Range | Qty Per Pack |
|---------------|----------|---------------------|------------------|--------------|
| 229.235.07    | 250      | 25 mL               | 25-200 mL        | 12           |
| 229.235.08    | 400      | 25 mL               | 25-325 mL        | 12           |
| 229.235.09    | 600      | 50 mL               | 100-500 mL       | 6            |
| 229.235.10    | 1000     | 50 mL               | 100-900 mL       | 6            |
| 229.235.11    | 2000     | 200 mL              | 200-1800 mL      | 4            |
| 229.235.14    | 4000     | 500 mL              | 500-3500 mL      | 1            |

## Brush, Beaker

| Cat. No.   | Type         | Material | Pcs/Pack |
|------------|--------------|----------|----------|
| 593.303.06 | Beaker Brush | Nylon    | 50       |

Brush  
Beaker



# Beakers



## Beakers (Euro Design)

Material : Polypropylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 101.303.01 | 25 ml    | 12       |
| 101.303.02 | 50 ml    | 12       |
| 101.303.03 | 100 ml   | 12       |
| 101.303.04 | 250 ml   | 12       |
| 101.303.05 | 500 ml   | 12       |
| 101.303.06 | 1000 ml  | 6        |
| 101.303.07 | 2000 ml  | 6        |
| 101.303.08 | 5000 ml  | 2        |

## Measuring Jugs, Euro Design

these handy Jugs, moulded in Polypropylene, are clear, autoclavable and have good chemical resistance. These jugs are provided with a handle for easy & convenient lifting and have raised graduations for easy reading.

Material : Polypropylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 179.303.01 | 250ml    | 12       |
| 179.303.05 | 500ml    | 12       |
| 179.303.06 | 1000ml   | 6        |
| 179.303.07 | 2000ml   | 6        |
| 179.303.08 | 3000ml   | 6        |
| 179.303.09 | 5000ml   | 4        |



## Conical Flask

made of Polypropylene, these cone shaped flasks are rigid, translucent & autoclavable. The screw cap keeps the contents of the flask contamination free and makes the flask leakproof. Threads should be disengaged before autoclaving.

Material : Polypropylene

| Item Code  | Capacity ml | Pcs/Pack |
|------------|-------------|----------|
| 111.303.01 | 100 ml      | 12       |
| 111.303.02 | 250 ml      | 12       |
| 111.303.03 | 500 ml      | 12       |





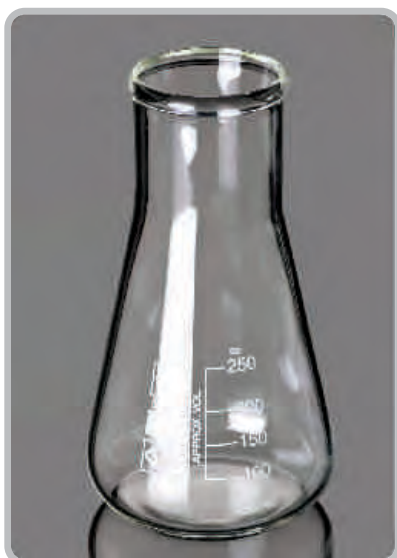
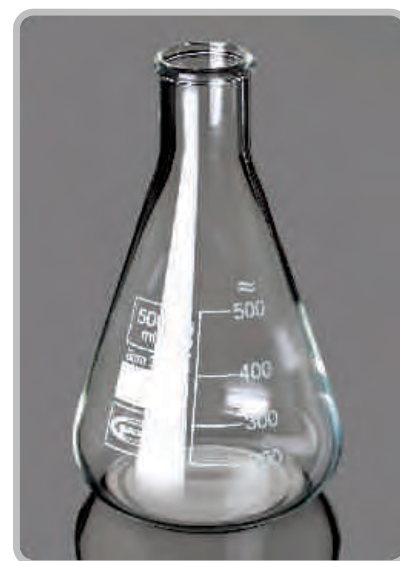
## Erlenmeyer Flasks

Manufactured from ASTM E 438 TYPE A BORO 3.3 GLASS. These flasks comply to **DIN ISO 1773 and USP standards**. All these flasks come with thick reinforced rim and are manufactured from thick glass. These flasks come with white graduation and marking area for use with ordinary pencil. These flasks can be provided in White & Blue color printing. For ordering just the same catalogue number and just mention the colour you need.

**Erlenmeyer Flasks, Narrow Neck**  
with graduation **DIN ISO 1773** with  
Reinforced thick Rim to reduce chipping & breakage.

| Cat No.    | Capacity ml | D. (mm) | D1. (mm) | H. (mm) | Pcs/Pack |
|------------|-------------|---------|----------|---------|----------|
| 231.202.01 | 25          | 42      | 22       | 75      | 10       |
| 231.202.02 | 50          | 51      | 22       | 90      | 10       |
| 231.202.03 | 100         | 64      | 22       | 105     | 10       |
| 231.202.04 | 250         | 85      | 34       | 145     | 10       |
| 231.202.05 | 500         | 105     | 34       | 180     | 10       |
| 231.202.06 | 1000        | 131     | 34       | 220     | 10       |
| 231.202.07 | 2000        | 166     | 50       | 280     | 6        |
| 231.202.08 | 3000        | 187     | 52       | 310     | 1        |
| 231.202.09 | 5000        | 220     | 52       | 365     | 1        |

**Erlenmeyer**  
Flasks Narrow Neck



**Erlenmeyer**  
Flasks Wide Neck

**Erlenmeyer Flasks, Wide Neck with graduation**  
**DIN 12385, EN ISO 24450** with Reinforced thick  
Rim to reduce chipping & breakage.

| Cat No.      | Capacity ml | D. (mm) | D1. (mm) | H. (mm) | Pcs/Pack |
|--------------|-------------|---------|----------|---------|----------|
| 232.202.01 * | 25          | 42      | 31       | 70      | 10       |
| 232.202.02   | 50          | 51      | 34       | 85      | 10       |
| 232.202.03   | 100         | 64      | 34       | 105     | 10       |
| 232.202.05   | 250         | 85      | 50       | 140     | 10       |
| 232.202.07   | 500         | 105     | 50       | 175     | 10       |
| 232.202.08   | 1000        | 131     | 50       | 220     | 10       |
| 232.202.09   | 2000        | 153     | 72       | 276     | 6        |

\* Non DIN

### Flask Erlenmeyer, Narrow Mouth

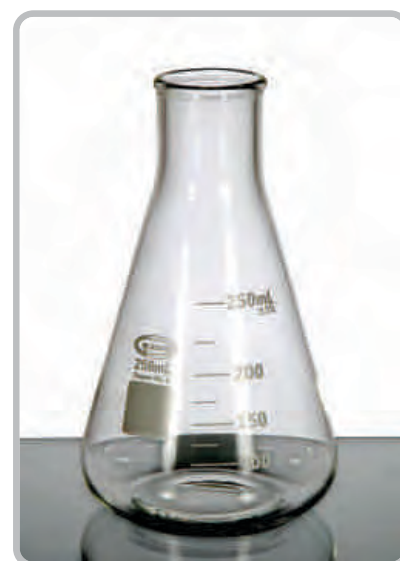
These flasks are made from thick wall and have reinforced thick beaded rim. The flasks are produced to meet **ASTM E 1404 TYPE 1** specifications. All the flasks are printed in white enamel.

| Catalogue No. | Capacity | Sub Division (ml) | Graduation Range | Rubber Stopper Size | Qty Per Pack |
|---------------|----------|-------------------|------------------|---------------------|--------------|
| 231.402.01    | 25 mL    | 5 mL              | 10-25 mL         | 0                   | 12           |
| 231.402.02    | 50 mL    | 10 mL             | 20-50 mL         | 1                   | 12           |
| 231.402.03A   | 125 mL   | 25 mL             | 50-125 mL        | 5                   | 12           |
| 231.402.04    | 250 mL   | 25 mL             | 50-200 mL        | 6                   | 12           |
| 231.402.04A   | 300 mL   | 25 mL             | 100-300 mL       | 6                   | 12           |
| 231.402.05    | 500 mL   | 50 mL             | 100-500 mL       | 7                   | 6            |
| 231.402.06    | 1000 mL  | 50 mL             | 250-1000 mL      | 9                   | 6            |
| 231.402.07    | 2000 mL  | 100 mL            | 600-2000 mL      | 10                  | 4            |
| 231.402.08A   | 4000 mL  | 500 mL            | 1000-4000 mL     | 10                  | 1            |
| 231.402.09    | 6000 mL  | 500 mL            | 1500-6000 mL     | 10                  | 1            |

**Erlenmeyer**  
Flasks Narrow Mouth

**NEW**

**ASTM**





# Round Bottom Flasks



## Round Bottom and Flat Bottom Flasks

Manufactured from ASTM E 438 TYPE 1 CLASS A BORD 3.3 These flasks comply to **DIN ISO 1773 and USP standards**. All these flasks come with thick reinforced rim and are manufactured from thick glass. These flasks come with white printing and marking area for use with ordinary pencil.



### Flask Round Bottom narrow neck, with beaded rim DIN 12347, DIN ISO 1773

| Cat No.      | Capacity ml | D. (mm) | D1. (mm) | H. (mm) | Pcs/ Pack |
|--------------|-------------|---------|----------|---------|-----------|
| 233.202.01   | 50          | 51      | 26       | 95      | 10        |
| 233.202.02   | 100         | 64      | 26       | 110     | 10        |
| 233.202.03   | 250         | 85      | 34       | 144     | 10        |
| 233.202.04   | 500         | 105     | 34       | 168     | 10        |
| 233.202.05   | 1000        | 131     | 42       | 200     | 10        |
| 233.202.06   | 2000        | 166     | 42       | 240     | 6         |
| 233.202.07 * | 3000        | 195     | 50       | 305     | 1         |
| 233.202.08 * | 5000        | 233     | 55       | 345     | 1         |
| 233.202.09   | 10000       | 279     | 65       | 380     | 1         |

\* Non DIN

### Flask Round Bottom wide neck, with beaded rim DIN 12347, EN ISO 24450

| Cat No.    | Capacity ml | D. (mm) | D1. (mm) | H. (mm) | Pcs/ Pack |
|------------|-------------|---------|----------|---------|-----------|
| 234.202.01 | 50          | 51      | 34       | 95      | 10        |
| 234.202.02 | 100         | 64      | 35       | 110     | 10        |
| 234.202.03 | 250         | 85      | 51       | 145     | 10        |
| 234.202.04 | 500         | 105     | 50       | 168     | 10        |
| 234.202.05 | 1000        | 131     | 50       | 200     | 10        |
| 234.202.07 | 2000        | 166     | 76       | 240     | 6         |





## Flat Bottom Flasks

**Flask Flat Bottom, narrow neck, with beaded rim  
DIN ISO 1773**

| Cat No.     | Capacity<br>ml | D. (mm) | D1. (mm) | H. (mm) | Pcs/<br>Pack |
|-------------|----------------|---------|----------|---------|--------------|
| 235.202.01  | 50             | 51      | 22       | 90      | 10           |
| 235.202.02  | 100            | 64      | 22       | 105     | 10           |
| 235.202.03  | 250            | 85      | 35       | 140     | 10           |
| 235.202.04  | 500            | 105     | 34       | 163     | 10           |
| 235.202.05  | 1000           | 131     | 42       | 190     | 10           |
| 235.202.06  | 2000           | 166     | 50       | 230     | 6            |
| 235.202.07* | 3000           | 195     | 50       | 300     | 1            |
| 235.202.08  | 5000           | 233     | 50       | 320     | 1            |
| 235.202.09  | 10000          | 280     | 65       | 360     | 1            |

\* Non DIN

Narrow Neck  
Flat Bottom  
Flask

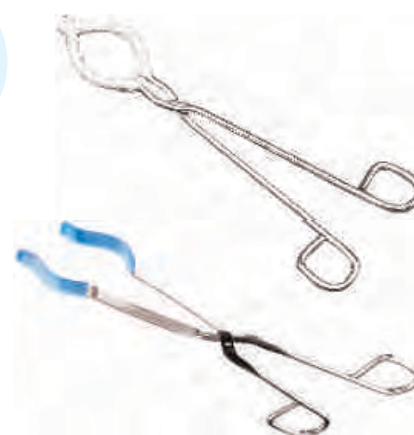


Wide Neck  
Flat Bottom

**Flask Flat Bottom, wide neck, with beaded rim  
EN ISO 24450**

| Cat No.    | Capacity<br>ml | D. (mm) | D1. (mm) | H. (mm) | Pcs/<br>Pack |
|------------|----------------|---------|----------|---------|--------------|
| 236.202.01 | 50             | 51      | 35       | 90      | 10           |
| 236.202.02 | 100            | 64      | 34       | 105     | 10           |
| 236.202.03 | 250            | 85      | 50       | 140     | 10           |
| 236.202.04 | 500            | 103     | 50       | 163     | 10           |
| 236.202.05 | 1000           | 131     | 50       | 190     | 10           |
| 236.202.06 | 2000           | 166     | 70       | 230     | 6            |

Tong  
Flask



**Flask Tong, EURO DESIGN**

Available in Silicon Sleeve in fibre Glass yarn to resist direct flame. To hold Flask upto 2 Liters (60 mm OD). Made of Stainless Steel

| Cat No.    | Length | Length      | Max Temp | Pcs/Pack |
|------------|--------|-------------|----------|----------|
| 396.303.05 | 250 mm | Glass Fibre | 500°C    | 4        |
| 396.303.06 | 300 mm | Glass Fibre | 500°C    | 4        |
| 396.303.07 | 250 mm | Silicon     | 280°C    | 4        |
| 396.303.08 | 300 mm | Silicon     | 280°C    | 4        |





## Brush, Flask

| Cat. No.   | Type        | Material | Pcs/Pack |
|------------|-------------|----------|----------|
| 593.303.04 | Flask Brush | Nylon    | 50       |

Brush  
Flask



Flask  
Stand PP

## Flask Stand

moulded in Polypropylene, this Flask Stand gives a stair like top view. Every step provides excellent support to the round bottom flask at every point of Contact. This Flask Stand can hold round bottom Flasks up to 10 Ltr. capacity. This Stackable Flask Stand can also be steam autoclaved.

Material : polypropylene

| Cat. No.   | Capacity    | Pcs/Pack |
|------------|-------------|----------|
| 115.303.01 | Flask Stand | 6        |

## Flask Stand

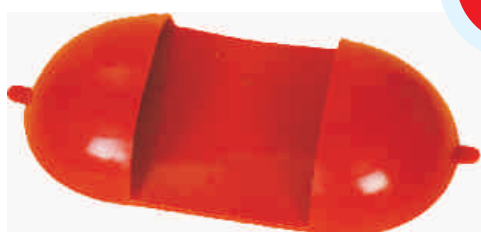
made of silicon to hold flasks from 10ml to 10000 ml, can withstand temp. up to 280°C.

| Cat No.    | Pcs/Pack |
|------------|----------|
| 417.303.01 | 2        |

Flask Stand  
Silicon



Hand  
Grip



## Hand Grip

made of silicon with slip free mechanism, easy use, can withstand temp. up to 280°C.

| Cat No.    | Pcs/Pack |
|------------|----------|
| 418.303.01 | 4        |





## General Labware

### Weighing Scoops

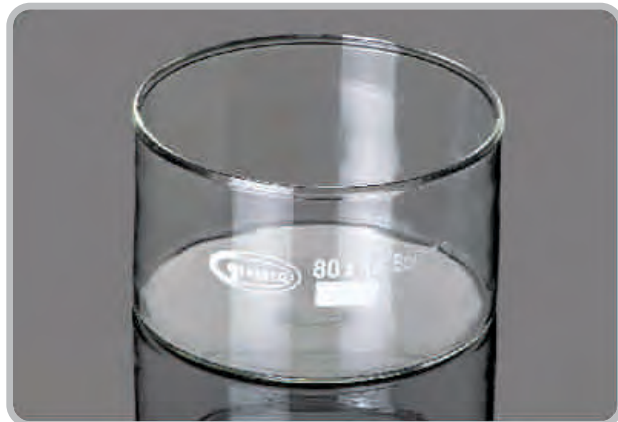
**Weighing Scoops**, with open tubular arm, suitable for use when small quantity of dyes or powders are to be weighed

| Cat No.    | Capacity | Pack Size |
|------------|----------|-----------|
| 245.202.01 | 3ml      | 10        |
| 245.202.02 | 6ml      | 10        |
| 245.202.03 | 10ml     | 10        |



### Dishes

Manufactured from ASTM E 438 TYPE 1 CIASS A BORO 3.3 GLASS. These dishes to DIN and USP standards. The dishes are printed in white colour and have marking area to use with ordinary pencil.



### Dishes Crystallizing without Spout

#### Dishes, Crystallizing, without Spout

| Cat No.    | Diameter x Height (mm) | Pack Size |
|------------|------------------------|-----------|
| 246.202.01 | 40 x 25                | 10        |
| 246.202.02 | 50 x 30                | 10        |
| 246.202.03 | 60 x 35                | 10        |
| 246.202.04 | 70 x 40                | 10        |
| 246.202.05 | 80 x 45                | 10        |
| 246.202.06 | 95 x 55                | 10        |

### Dishes Crystallizing with Spout

#### Dishes, Crystallizing, with Spout, DIN 12337

| Cat No.     | O.D. x Height (mm) | Pack Size |
|-------------|--------------------|-----------|
| 246.202.01S | 40 x 25            | 10        |
| 246.202.02S | 50 x 30            | 10        |
| 246.202.03S | 60 x 35            | 10        |
| 246.202.04S | 70 x 40            | 10        |
| 246.202.05S | 80 x 45            | 10        |
| 246.202.06S | 95 x 55            | 10        |



# Petri Dish



**Petri Dish**, manufactured from **BORO 3.3 Glass** which can withstand repeated Autoclaving.

| Cat No.    | O.D. x Height (mm) | Pack Size |
|------------|--------------------|-----------|
| 248.202.01 | 50 x 17            | 10        |
| 248.202.02 | 80 x 17            | 10        |
| 248.202.03 | 100 x 17           | 10        |
| 248.202.04 | 150 x 20           | 10        |
| 248.202.05 | 200 x 20           | 10        |

## Petri Dish

these Petri Dishes are clear, unbreakable & autoclavable.  
Material : Polypropylene

| Cat. No.   | Size   | Pcs/Pack |
|------------|--------|----------|
| 124.303.01 | 50 mm  | 36       |
| 124.303.02 | 75 mm  | 36       |
| 124.303.03 | 100 mm | 36       |
| 124.303.04 | 125 mm | 12       |
| 124.303.05 | 150 mm | 12       |



## Petri Dish (Disposable)

these transparent, ready to use, disposable Petri Dishes are made of optically clear, non-toxic, Polystyrene, These Petri Dishes packed individually in polyethylene bags are sterilized by radiation.  
Material : Polystyrene

| Cat. No.   | Size  | Pcs/Pack |
|------------|-------|----------|
| 159.303.01 | 90 mm | 36       |

## Rack For Petri Dishes

is a clear acrylic construction with white Polycarbonate Posts. It has a capacity to hold 60 petri dishes of 90 mm size. This rack is very useful during inoculation, incubation & Storage. Visibility from all sides enables the culture to be seen & checked during incubation.  
Material : Polymethyl Methacrylate/ Polycarbonate

| Cat. No.   | Size  | Pcs/Pack |
|------------|-------|----------|
| 160.303.01 | 90 mm | 2        |
| 160.303.02 | 60mm  | 2        |





## Crucibles

### Silica Crucible, with Lid Up to 1000°C

| Cat. No.   | Capacity | Dia (mm) | Height (mm) | Pcs/Pack |
|------------|----------|----------|-------------|----------|
| 518.303.01 | 15       | 41       | 25          | 6        |
| 518.303.02 | 25       | 47       | 28          | 6        |
| 518.303.03 | 50       | 57       | 37          | 6        |
| 518.303.04 | 80       | 67       | 45          | 4        |
| 518.303.05 | 100      | 71       | 50          | 4        |
| 518.303.06 | 150      | 82       | 51          | 4        |

Silica  
Crucible  
with Lid



Silica  
Crucible  
without Lid

### Silica Crucible, without Lid Up to 1000°C

| Cat. No.   | Capacity | Dia (mm) | Height (mm) | Pcs/Pack |
|------------|----------|----------|-------------|----------|
| 519.303.01 | 15       | 41       | 25          | 6        |
| 519.303.02 | 25       | 47       | 28          | 6        |
| 519.303.03 | 50       | 57       | 37          | 6        |
| 519.303.04 | 80       | 67       | 45          | 4        |
| 519.303.05 | 100      | 71       | 50          | 4        |
| 519.303.06 | 150      | 82       | 51          | 4        |

### Quartz Crucible,

Made of Quartz Gel & Powder,  
Tolerance upto 2000°C

| Item Code  | Size   | Type        | Pcs/Pack |
|------------|--------|-------------|----------|
| 521.303.01 | 15 ML  | Without Lid | 4        |
| 521.303.02 | 25 ML  | Without Lid | 4        |
| 521.303.03 | 50 ML  | Without Lid | 2        |
| 521.303.04 | 100 ML | Without Lid | 2        |
| 521.303.05 | 15 ML  | With Lid    | 4        |
| 521.303.06 | 25 ML  | With Lid    | 4        |
| 521.303.07 | 50 ML  | With Lid    | 2        |
| 521.303.08 | 100 ML | With Lid    | 2        |

Quartz  
Crucible



Crucible  
Porcelain  
Squat Form



### Crucible Porcelain (Euro Design)

- Made of Ceramic • With Lid
- Maximum temperature upto 1150°C

| Item Code  | Capacity | Dia    | Height | Pcs/Pack |
|------------|----------|--------|--------|----------|
| 522.303.13 | 2 ml     | 18 mm  | 12 mm  | 6        |
| 522.303.14 | 8 ml     | 32 mm  | 20 mm  | 6        |
| 522.303.15 | 17 ml    | 41 mm  | 26 mm  | 4        |
| 522.303.16 | 30 ml    | 50 mm  | 31 mm  | 4        |
| 522.303.17 | 50 ml    | 61 mm  | 37 mm  | 4        |
| 522.303.18 | 100 ml   | 76 mm  | 46 mm  | 2        |
| 522.303.19 | 150 ml   | 84 mm  | 52 mm  | 2        |
| 522.303.20 | 250 ml   | 102 mm | 60 mm  | 2        |

### Crucible Porcelain, Tall form (Euro Design)

- Made of Ceramic • With Lid, tall form
- Maximum temperature upto 1150°C

| Item Code  | Capacity | Dia   | Height | Pcs/Pack |
|------------|----------|-------|--------|----------|
| 523.303.11 | 1.5 ml   | 15 mm | 15 mm  | 6        |
| 523.303.12 | 6 ml     | 24 mm | 20 mm  | 6        |
| 523.303.13 | 10 ml    | 31 mm | 26 mm  | 4        |
| 523.303.14 | 15 ml    | 35 mm | 29 mm  | 4        |
| 523.303.15 | 30 ml    | 43 mm | 37 mm  | 4        |
| 523.303.16 | 40 ml    | 50 mm | 40 mm  | 2        |
| 523.303.17 | 50 ml    | 53 mm | 43 mm  | 2        |
| 523.303.18 | 100 ml   | 65 mm | 54 mm  | 2        |
| 523.303.19 | 250 ml   | 88 mm | 72 mm  | 2        |

Crucible  
Porcelain  
Tall Form



## Tongs & Dishes



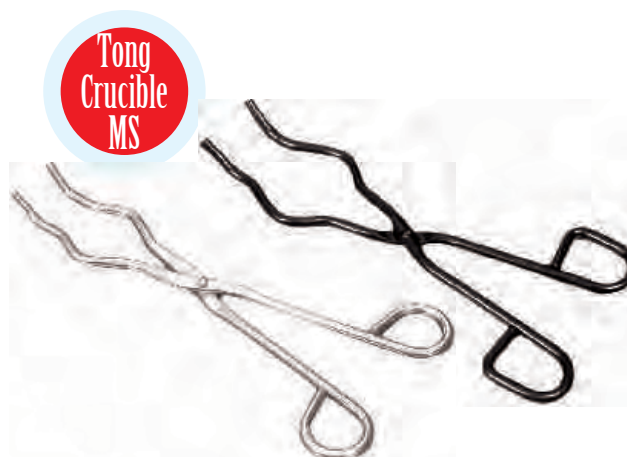
Tong  
Crucible  
SS

**Crucible Tong, SS**  
Stainless Steel. Grade 304.

| Cat. No.   | Size (mm) | Pcs/Pack |
|------------|-----------|----------|
| 355.303.01 | 150       | 4        |
| 355.303.02 | 200       | 4        |
| 355.303.03 | 250       | 4        |
| 355.303.04 | 300       | 4        |
| 355.303.05 | 375       | 4        |
| 355.303.06 | 450       | 4        |
| 355.303.07 | 600       | 4        |

**Crucible Tong, Mild Steel** made of mild steel,  
black paint/chrome plated.

| Cat. No.   | Size (mm) | Type          | Pcs/Pack |
|------------|-----------|---------------|----------|
| 367.303.01 | 150       | black painted | 4        |
| 367.303.02 | 200       | black painted | 4        |
| 367.303.03 | 300       | black painted | 4        |
| 367.303.04 | 150       | chrome plated | 4        |
| 367.303.05 | 200       | chrome plated | 4        |
| 367.303.06 | 300       | chrome plated | 4        |



Tong  
Crucible  
MS



Evaporating  
Dish

**Evaporating Dish, EURO DESIGN**  
made of Porcelain,  
maximum temperature upto 1000°C

| Cat No.    | Capacity | OD x H      | Pcs/Pack |
|------------|----------|-------------|----------|
| 528.303.07 | 35 ML    | 60 x 24 mm  | 6        |
| 528.303.08 | 70 ML    | 75 x 30 mm  | 6        |
| 528.303.09 | 80 ML    | 80 x 30 mm  | 6        |
| 528.303.10 | 120 ML   | 94 x 42 mm  | 6        |
| 528.303.11 | 150 ML   | 100 x 42 mm | 6        |
| 528.303.12 | 250 ML   | 115 x 45 mm | 4        |
| 528.303.13 | 385 ML   | 145 x 48 mm | 4        |
| 528.303.14 | 525 ML   | 162 x 51 mm | 2        |
| 528.303.15 | 765 ML   | 185 x 54 mm | 2        |
| 528.303.16 | 1285 ML  | 215 x 75 mm | 2        |
| 528.303.17 | 2100 ML  | 265 x 80 mm | 1        |
| 528.303.18 | 3250 ML  | 305 x 95 mm | 1        |

### Pestle & Mortar

EURO DESIGN, made of Porcelain,  
maximum temperature upto 1000°C

| Item Code  | Size (ID x H) | Pcs/Pack |
|------------|---------------|----------|
| 529.303.08 | 60 x 44 mm    | 6        |
| 529.303.09 | 75 x 48 mm    | 4        |
| 529.303.10 | 85 x 55 mm    | 4        |
| 529.303.11 | 100 x 70 mm   | 4        |
| 529.303.12 | 117 x 75 mm   | 4        |
| 529.303.13 | 125 x 88 mm   | 2        |
| 529.303.15 | 150 x 100 mm  | 1        |
| 529.303.16 | 175 x 115 mm  | 1        |
| 529.303.17 | 200 x 140 mm  | 1        |
| 529.303.18 | 250 x 175 mm  | 1        |
| 529.303.19 | 300 x 205 mm  | 1        |
| 529.303.20 | 350 mm ID     | 1        |
| 529.303.21 | 400 mm ID     | 1        |

Pestle &  
Mortar





## Dessicators

**Dessicator with Lid, Plain, Die pressed, Neutral Glass with Porcelain perforated plate.**

| Cat No.    | I.D.(mm) | Pcs/Pack |
|------------|----------|----------|
| 249.202.01 | 150      | 1        |
| 249.202.02 | 210      | 1        |
| 249.202.03 | 250      | 1        |
| 249.202.04 | 300      | 1        |

Dessicator  
with Lid  
Plain



Dessicator  
with Lid  
Plain

**Dessicator With Lid,**  
Vacuum, Die Pressed, Neutral Glass with  
Porcelain Perforated Plate and Glass Sleeve

| Cat No.    | I.D.(mm) | Pack Size |
|------------|----------|-----------|
| 250.202.01 | 150      | 1         |
| 250.202.02 | 210      | 1         |
| 250.202.03 | 250      | 1         |
| 250.202.04 | 300      | 1         |

### Desiccator (Vacuum)

are made of Polypropylene and Polycarbonate. These autoclavable vacuum desiccators can hold vacuum up to 740 mm of Hg for 24 hrs. without any greasing. The top dome, moulded in rigid and transparent Polycarbonate, gives a crystal clear view of the desiccant placed inside. The Knurled knob on the top provides easy handling of the dome. The lower part is made of Polypropylene. An internal groove is provided on the flange to hold a silicon rubber O-ring. The Polypropylene stopcock is fitted with a self lubricating PTFE plug. This plug works three way i.e. vacuum creation, shutting off & vacuum releasing.

Material : Polypropylene/ Polycarbonate

| Cat. No.   | Size   | Flange | I.D.   | Pcs/Pack |
|------------|--------|--------|--------|----------|
| 118.303.01 | 150 mm | 171 mm | 150 mm | 1        |
| 118.303.02 | 200 mm | 232 mm | 199 mm | 1        |
| 118.303.03 | 250 mm | 276 mm | 240 mm | 1        |
| 118.303.04 | 300 mm | 340 mm | 300 mm | 1        |

Desiccator  
Vacuum PP



Desiccator  
Plain PP

### Desiccator (Plain)

are physically the same as Vacuum Desiccator. Only difference is the absence of stop cock. Grease should be applied on the flanges to make it air tight. Both Vacuum & Plain Desiccators are provided with a thick perforated Polypropylene disc with a big hole in the center for easy lifting. The tiny holes in the disc provide air trough & support to the dishes. However porcelain discs are advisable in case of incandescent crucibles.

Material : Polypropylene/ Polycarbonate

| Cat. No.   | Type                 | Size   | Flange | I.D.   | Pcs/Pack |
|------------|----------------------|--------|--------|--------|----------|
| 119.303.01 | Plain                | 150 mm | 171 mm | 150 mm | 1        |
| 119.303.02 | Plain                | 200 mm | 232 mm | 199 mm | 1        |
| 119.303.03 | Plain                | 250 mm | 276 mm | 240 mm | 1        |
| 119.303.04 | Plain                | 300 mm | 340 mm | 300 mm | 1        |
| 119.303.05 | (Vacuum - All Clear) | 150mm  | 171mm  | 150 mm | 1        |
| 119.303.06 | (Vacuum - All Clear) | 200mm  | 232 mm | 199 mm | 1        |
| 119.303.07 | (Vacuum - All Clear) | 250mm  | 276 mm | 250 mm | 1        |
| 119.303.08 | (Vacuum - All Clear) | 300mm  | 340 mm | 300 mm | 1        |





## Laboratory Tray



### Laboratory Tray

needless to say, Glassco Laboratory Tray moulded in polypropylene is a multipurpose tray that can be used for sterilizing, drying glassware, porcelain ware & other laboratory instruments. These steam autoclavable trays have tapered walls which prove good for nesting.

Material : Polypropylene

| Cat. No.   | Size              | Pcs/Pack |
|------------|-------------------|----------|
| 185.303.01 | 450 x 350 x 75 mm | 10       |
| 185.303.02 | 375 x 300 x 75 mm | 10       |

### Utility Tray

adding to the already existing range of autoclavable laboratories trays, is the Utility Tray and as the name suggests this Polypropylene Tray can be utilized for purposes ranging from drying glassware to sterilizing and to store any laboratory apparatus.

Material : Polypropylene

| Cat. No.   | Size               | Pcs/Pack |
|------------|--------------------|----------|
| 186.303.01 | 375 x 350 x 130 mm | 6        |

## Utility Tray



## Carrier Tray



### Carrier Tray

This autoclavable Polypropylene Tray has a unique feature i.e. its handle which proves really helpful in carrying reagents or laboratory apparatus from one place to another, single handedly.

Material : Polypropylene

| Cat. No.   | Size               | Pcs/Pack |
|------------|--------------------|----------|
| 187.303.01 | 380 x 240 x 115 mm | 6        |

### Draining Rack

Material: Acrylopitriple Butadiene Styrene/polycarbonate

| Cat. No.   | Pcs/Pack |
|------------|----------|
| 205.303.01 | 1        |

## Draining Rack





## Retort Stands & Clamps

### Retort Stand

non-corrosive, moulded Retort Stands provide excellent replacement for the metal ones. Even the metallic rod has a polypropylene covering making it non-corrosive. The rod measuring 12.5 mm x 750 mm can be screwed into the heavy base giving way to a perfectly stable Retort Stand.

Material : Polystyrene/ Polypropylene

| Item Code  | Size                     | Pcs/Pack |
|------------|--------------------------|----------|
| 117.303.01 | 225 x 150 mm- Side Hold  | 1        |
| 117.303.02 | 300 x 200 mm-Center Hold | 1        |
| 117.303.03 | 300 x 200 mm- Side Hold  | 1        |



### Retort Stand

Material : M.S & Blue Powder Coated Rod with L- Key AS PER DIN 12892

| Item Code  | Size        | Size (Length x dia) | Pcs/Pack |
|------------|-------------|---------------------|----------|
| 309.303.01 | 150 x 100mm | 500mm x 12mm        | 2        |
| 309.303.02 | 200 x 125mm | 600mm x 12mm        | 2        |
| 309.303.03 | 250 x 150mm | 750mm x 12mm        | 2        |

### Retort Stand

Material : Cast Iron & Hammer tone rod with L- Key AS PER DIN 12892

| Item Code  | Size         | Size (Length x dia) | Pcs/Pack |
|------------|--------------|---------------------|----------|
| 310.303.01 | 150 x 100 mm | 950 x 10 mm         | 2        |
| 310.303.02 | 175 x 125 mm | 600 x 12.5 mm       | 2        |
| 310.303.03 | 200 x 125mm  | 600 x 12.5 mm       | 2        |
| 310.303.04 | 200 x 125mm  | 600 x 12 mm         | 2        |
| 310.303.05 | 225 x 150mm  | 750 x 12 mm         | 2        |
| 310.303.06 | 250 x 150mm  | 600 x 12 mm         | 2        |
| 310.303.07 | 250 x 200mm  | 750 x 12 mm         | 2        |
| 310.303.08 | 300 x 175mm  | 900 x 12 mm         | 2        |
| 310.303.09 | 250 x 150mm  | 750 x 12 mm         | 2        |



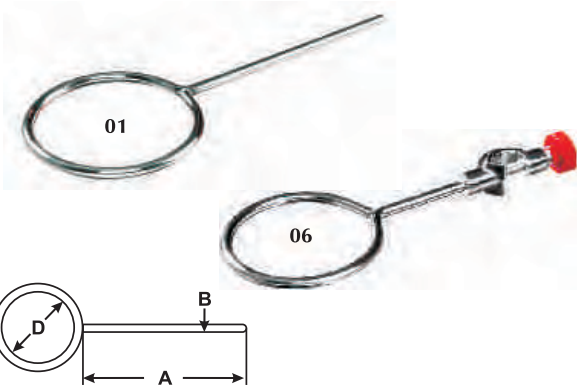
### Retort Rings

Material : Mild Steel, Hammer Tone Painted, with Boss Head

| Item Code  | Size   | Pcs/Pack |
|------------|--------|----------|
| 313.303.01 | 50 mm  | 4        |
| 313.303.02 | 62.5mm | 4        |
| 313.303.03 | 75mm   | 4        |
| 313.303.04 | 100mm  | 4        |
| 313.303.05 | 125mm  | 2        |
| 313.303.06 | 150mm  | 2        |
| 313.303.07 | 200mm  | 2        |



# Clamps



## Retort Ring

Made of steel, chrome plated.  
With rod from 70 mm to 220 mm length or  
With bosshead to suit rod dia of 14 mm

| Item Code  | A      | B | D     | Type     | Pcs/Pack |
|------------|--------|---|-------|----------|----------|
| 393.303.01 | 160 mm | 7 | 50mm  | Rod      | 4        |
| 393.303.02 | 200 mm | 7 | 70mm  | Rod      | 4        |
| 393.303.03 | 220 mm | 8 | 100mm | Rod      | 4        |
| 393.303.04 | 220 mm | 8 | 120mm | Rod      | 2        |
| 393.303.05 | 220 mm | 8 | 140mm | Rod      | 2        |
| 393.303.06 | 70 mm  | 7 | 50mm  | Bosshead | 4        |
| 393.303.07 | 70 mm  | 7 | 70mm  | Bosshead | 4        |
| 393.303.08 | 70 mm  | 8 | 100mm | Bosshead | 4        |
| 393.303.09 | 70 mm  | 8 | 120mm | Bosshead | 2        |
| 393.303.10 | 70 mm  | 8 | 140mm | Bosshead | 2        |

## Retort Clamp

Cross pattern, die-casted, to hold upto 65 mm  
AS PER DIN 12894

| Item Code  | Type  | Pcs/Pack |
|------------|---|----------|
| 324.303.01 | Aluminium, Cork Lined - Cross Pattern,<br>to hold upto 50 - 65 mm circles | 2        |
| 324.303.04 | Zinc, Cork Lined - Cross Pattern,<br>to hold upto 50 - 65 mm circles      | 2        |



## Retort Clamp

3 Prong, Aluminium, Silicone Sleeved, AS PER DIN 12894  
Material : Aluminium diecasted & white Powder Coated

| Item Code  | Type  | Pcs/Pack |
|------------|---|----------|
| 326.303.02 | Three Prongs, to hold upto 50 - 65 mm circles | 2        |

## Universal Clamp

Aluminium, Cork Lined, AS PER DIN 12894  
Material : Aluminium diecasted, powder coated,  
chrome plated with MS Steel Rod

| Item Code  | Type                            | Pcs/Pack |
|------------|---------------------------------|----------|
| 328.303.01 | to hold upto 50 - 65 mm circles | 2        |





## Clamps

### Condenser Clamp - Four Prong

Silicone Sleeved,

Material: Aluminium, powder coated with steel rod

| Item Code  | Type                        | Pcs/Pack |
|------------|-----------------------------|----------|
| 334.303.02 | to hold upto 125 mm circles | 2        |

Condenser  
Clamp



Condenser  
Clamp

### Condenser Clamp - Three Prong

Silicone Sleeved,

Material: Aluminium, powder coated with steel rod

| Item Code  | Type                        | Pcs/Pack |
|------------|-----------------------------|----------|
| 335.303.02 | to hold upto 125 mm circles | 2        |

### Retort Clamp

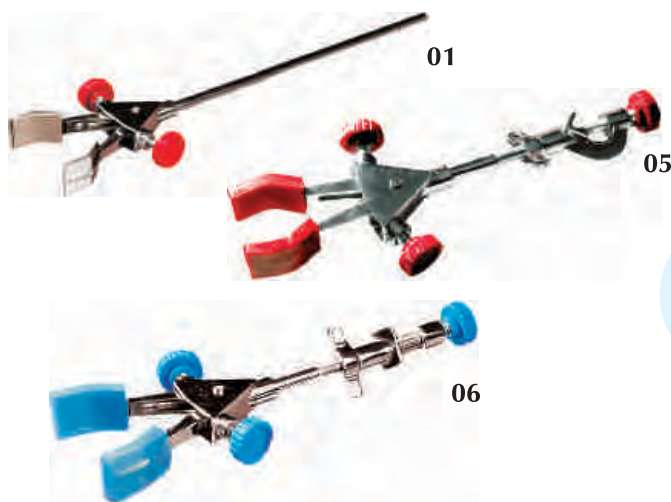
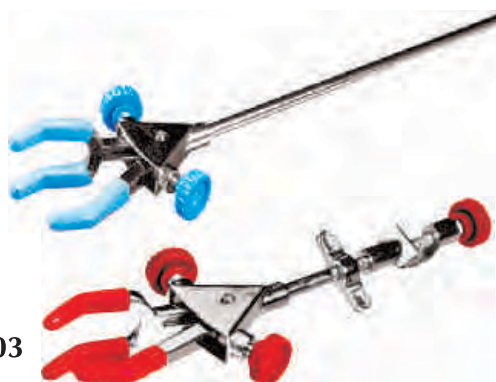
3 Prong, EURO DESIGN

| Item Code  | Type                           | Type |
|------------|--------------------------------|------|
| 390.303.01 | PVC sleeve with rod            | 2    |
| 390.303.02 | Silicone sleeve with rod       | 2    |
| 390.303.03 | PVC sleeve with boss Head      | 2    |
| 390.303.04 | SILICONE sleeve with boss Head | 2    |

Retort  
Clamp

02

03



Retort  
Clamp

### Retort Clamp

2 Prong Standard, EURO DESIGN,

Zinc alloy, Chrome plated to hold upto 80 mm

| Item Code  | Type                           | Pcs/Pack |
|------------|--------------------------------|----------|
| 391.303.01 | CORK lined with rod            | 2        |
| 391.303.02 | PVC sleeve with rod            | 2        |
| 391.303.03 | SILICONE sleeve with rod       | 2        |
| 391.303.04 | CORK lined with boss head      | 2        |
| 391.303.05 | PVC sleeve with boss head      | 2        |
| 391.303.06 | SILICONE sleeve with boss head | 2        |



## Boss Heads



Boss  
Head

### BOSS HEAD

Material : Cast Iron, painted, for use with retort Stand and condenser clamp AS PER DIN 12895

| Item Code  | Size (Dia x Length)                   | Pcs/Pack |
|------------|---------------------------------------|----------|
| 338.303.01 | hold upto 20mm heavy with round screw | 4        |
| 338.303.03 | hold upto 20mm heavy with rod screw   | 4        |

### BOSS HEAD

Material : Cast Iron, painted, for use retort Stand and Condenser Clamp AS PER DIN 12895

| Item Code  | Size (Dia x Length)                    | Pcs/Pack |
|------------|--|----------|
| 337.303.01 | hold upto 25mm heavy, with round screw | 4        |
| 337.303.02 | hold upto 25mm heavy, with thumb screw | 4        |
| 337.303.03 | hold upto 25mm heavy, with rod screw   | 4        |



Boss  
Head



Boss  
Head

### BOSS HEAD

Material : Powder coated, AS PER DIN 12895

| Item Code  | Description  | Pcs/Pack |
|------------|--|----------|
| 341.303.01 | Aluminium, Round Screw, hold upto 16 mm AS PER DIN 12895 | 4        |
| 341.303.02 | Aluminium, Thumb Screw, hold upto 16 mm AS PER DIN 12895 | 4        |
| 341.303.03 | Aluminium, Rod Screw, hold upto 16 mm AS PER DIN 12895   | 4        |
| 341.303.04 | Zinc, Round Screw, hold upto 16 mm AS PER DIN 12895      | 4        |
| 341.303.05 | Zinc, Thumb Screw, hold upto 16 mm AS PER DIN 12895      | 4        |
| 341.303.06 | Zinc, Rod Screw, hold upto 16 mm AS PER DIN 12895        | 4        |

### Tripod Stand

Material : Cast iron base, Hammer Tone, Finished Round

| Item Code  | Size         | Top               | Pcs/Pack |
|------------|--------------|-------------------|----------|
| 344.303.01 | 100 x 150 mm | with round top    | 1        |
| 344.303.02 | 100 x 175 mm | with round top    | 1        |
| 344.303.03 | 100 x 200 mm | with round top    | 1        |
| 344.303.04 | 125 x 150 mm | with round top    | 1        |
| 344.303.05 | 125 x 175 mm | with round top    | 1        |
| 344.303.06 | 125 x 200 mm | with round top    | 1        |
| 344.303.07 | 100 x 150 mm | with triangle top | 1        |
| 344.303.08 | 100 x 175 mm | with triangle top | 1        |
| 344.303.09 | 100 x 200 mm | with triangle top | 1        |
| 344.303.10 | 125 x 150 mm | with triangle top | 1        |
| 344.303.11 | 125 x 175 mm | with triangle top | 1        |
| 344.303.12 | 125 x 200 mm | with triangle top | 1        |

Tripod  
Stand





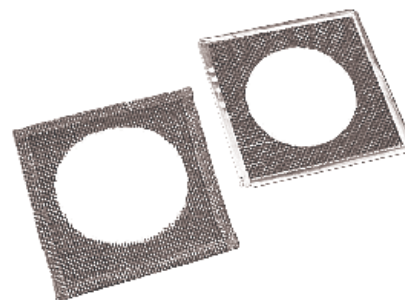
## Burners

### Wire Gauge

Ceramic Center, Maximum Temperature Upto 800°C

| Item Code  | Type         | Pcs/Pack |
|------------|--------------|----------|
| 524.303.01 | 100 x 100 mm | 10       |
| 524.303.02 | 125 x 125 mm | 10       |
| 524.303.03 | 150 x 150 mm | 10       |
| 524.303.04 | 200 x 200 mm | 10       |

Wire  
Mesh



01



02



Bunsen  
Burner

### Bunsen Burner

with Stop Cock L.P.G.

| Item Code  | Description   | Pcs/Pack |
|------------|---|----------|
| 347.303.01 | Casted Iron black painted AS PER DIN 30665                    | 1        |
| 347.303.02 | Casted Iron Black painted, easy flame regulator double walled | 1        |
|            | Brass pipe to give a concentrated higher flame, Eco-Friendly  |          |
|            | AS PER DIN 30665  |          |

### Meaker Burner

Material : Casted Iron red painted AS PER DIN 30665

| Item Code  | Description       | Pcs/Pack |
|------------|-------------------|----------|
| 348.303.01 | Without Stop Cock | 1        |

Meaker  
Burner



01



02



Meaker  
Burner

### Meaker Burner

Material : Casted Iron red painted AS PER DIN 30665

| Item Code  | Description                              | Pcs/Pack |
|------------|--|----------|
| 349.303.01 | With Stop Cock L.P.G                     | 1        |
| 349.303.02 | ECONOMIC With Stop Cock L.P.G, Bunsen    | 1        |
|            | Burner type with cap, for school purpose |          |

### Laboratory Jack

all sizes are in millimeters.

| Cat No.    | Type            | Size (mm) | Pcs/Pack |
|------------|-----------------|-----------|----------|
| 370.303.09 | Stainless Steel | 120 x 140 | 1        |
| 370.303.10 | Stainless Steel | 200 x 200 | 1        |
| 370.303.11 | Stainless Steel | 250 x 250 | 1        |

Laboratory  
Jack



## Rubberware



### Silicon Rubber Cork



#### Silicon Cork

Autoclavable with temperature range -50 to 250°C,  
Shore Hardness 45-50

| Item Code  | Type                      | Size<br>(Bottom Dia x<br>Top Dia x Height) | Pcs/Pack |
|------------|---------------------------|--|----------|
| 405.303.01 | (TRANSLUCENT)             | 9 x 11.5 x 20                              | 10       |
| 405.303.02 | (TRANSLUCENT)             | 11 x 14 x 24                               | 10       |
| 405.303.03 | (TRANSLUCENT)             | 13 x 16 x 24                               | 10       |
| 405.303.04 | (TRANSLUCENT)             | 15 x 18 x 24                               | 10       |
| 405.303.05 | (TRANSLUCENT)             | 17 x 20 x 26                               | 10       |
| 405.303.06 | (TRANSLUCENT)             | 18 x 21 x 26                               | 10       |
| 405.303.07 | (TRANSLUCENT)             | 19 x 22.5 x 28                             | 10       |
| 405.303.08 | (TRANSLUCENT)             | 23 x 25.5 x 28                             | 10       |
| 405.303.09 | (TRANSLUCENT)             | 25 x 28.5 x 28                             | 10       |
| 405.303.10 | (TRANSLUCENT)             | 27 x 31 x 32                               | 10       |
| 405.303.11 | (TRANSLUCENT)             | 29 x 33 x 32                               | 10       |
| 405.303.12 | (TRANSLUCENT)             | 31 x 36 x 35                               | 10       |
| 405.303.13 | (TRANSLUCENT)             | 33 x 38.5 x 38.5                           | 10       |
| 405.303.14 | EURO DESIGN (TRANSLUCENT) | 3.5 x 6.5 x 15                             | 10       |
| 405.303.15 | EURO DESIGN (TRANSLUCENT) | 5 x 9 x 20                                 | 10       |
| 405.303.16 | EURO DESIGN (TRANSLUCENT) | 8 x 12 x 20                                | 10       |
| 405.303.17 | EURO DESIGN (TRANSLUCENT) | 10.5 x 14.5 x 20                           | 10       |
| 405.303.18 | EURO DESIGN (TRANSLUCENT) | 12.5 x 16.5 x 20                           | 10       |
| 405.303.19 | EURO DESIGN (TRANSLUCENT) | 14 x 18 x 20                               | 10       |
| 405.303.20 | EURO DESIGN (TRANSLUCENT) | 17 x 22 x 25                               | 10       |
| 405.303.21 | EURO DESIGN (TRANSLUCENT) | 18 x 24 x 30                               | 10       |
| 405.303.22 | EURO DESIGN (TRANSLUCENT) | 21 x 27 x 30                               | 10       |
| 405.303.23 | EURO DESIGN (TRANSLUCENT) | 23 x 29 x 30                               | 10       |
| 405.303.24 | EURO DESIGN (TRANSLUCENT) | 26 x 32 x 30                               | 10       |
| 405.303.25 | EURO DESIGN (TRANSLUCENT) | 29 x 35 x 30                               | 10       |
| 405.303.26 | EURO DESIGN (TRANSLUCENT) | 31 x 38 x 35                               | 10       |
| 405.303.27 | EURO DESIGN (TRANSLUCENT) | 36 x 44 x 40                               | 10       |
| 405.303.28 | EURO DESIGN (TRANSLUCENT) | 41 x 49 x 40                               | 10       |
| 405.303.29 | EURO DESIGN (TRANSLUCENT) | 47 x 55 x 40                               | 10       |
| 405.303.30 | EURO DESIGN (TRANSLUCENT) | 50.5 x 59.5 x 45                           | 10       |
| 405.303.31 | EURO DESIGN (TRANSLUCENT) | 56 x 65 x 45                               | 10       |
| 405.303.32 | EURO DESIGN (TRANSLUCENT) | 60 x 70 x 50                               | 10       |
| 405.303.33 | EURO DESIGN (TRANSLUCENT) | 64.5 x 75.5 x 55                           | 10       |
| 405.303.34 | EURO DESIGN (TRANSLUCENT) | 71 x 83 x 60                               | 10       |
| 405.303.35 | EURO DESIGN (TRANSLUCENT) | 79 x 92 x 65                               | 10       |
| 405.303.36 | EURO DESIGN (TRANSLUCENT) | 87 x 100 x 65                              | 10       |
| 405.303.37 | EURO DESIGN (TRANSLUCENT) | 94 x 107 x 65                              | 10       |

#### Rubber Tubing

Material : Natural Rubber, Temperature range -30 to 70°C  
Red Superior 10 Meter Coil

| Item Code  | Bore    | Wall Thickness | Pcs/Pack |
|------------|---------|----------------|----------|
| 406.303.01 | 4.0 mm  | 1.0 mm         | 10 Mtr   |
| 406.303.02 | 5.0 mm  | 1.5 mm         | 10 Mtr   |
| 406.303.03 | 6.0 mm  | 1.5 mm         | 10 Mtr   |
| 406.303.04 | 7.0 mm  | 1.5 mm         | 10 Mtr   |
| 406.303.05 | 8.0 mm  | 1.5 mm         | 10 Mtr   |
| 406.303.06 | 9.0 mm  | 2.0 mm         | 10 Mtr   |
| 406.303.07 | 10.0 mm | 2.0 mm         | 10 Mtr   |
| 406.303.08 | 12.0 mm | 2.5 mm         | 10 Mtr   |



### Rubber Corks

#### Rubber Corks

Autoclavable with temperature range -30 to 70°C,  
Shore Hardness 45

| Item Code  | Type                      | Size<br>(Bottom Dia x<br>Top Dia x Height) | Pcs/Pack |
|------------|---------------------------|--|----------|
| 410.303.01 |                           | 9 x 6 x 16 mm                              | 10       |
| 410.303.02 |                           | 13 x 9 x 15.5 mm                           | 10       |
| 410.303.03 |                           | 14 x 11 x 18.5 mm                          | 10       |
| 410.303.04 |                           | 16.5 x 13 x 20 mm                          | 10       |
| 410.303.05 |                           | 19 x 14 x 21 mm                            | 10       |
| 410.303.06 |                           | 21 x 15 x 22 mm                            | 10       |
| 410.303.07 |                           | 22.5 x 17.5 x 23 mm                        | 10       |
| 410.303.08 |                           | 24.5 x 20 x 24 mm                          | 10       |
| 410.303.09 |                           | 26 x 20 x 27.5 mm                          | 10       |
| 410.303.10 |                           | 26.5 x 21 x 27.5 mm                        | 10       |
| 410.303.11 |                           | 28 x 21.5 x 31 mm                          | 10       |
| 410.303.12 |                           | 30 x 26 x 33 mm                            | 10       |
| 410.303.13 |                           | 33 x 29 x 32 mm                            | 10       |
| 410.303.14 |                           | 34.5 x 30 x 34.5 mm                        | 10       |
| 410.303.15 |                           | 38.5 x 31 x 37 mm                          | 10       |
| 410.303.16 |                           | 41.5 x 32 x 42.5 mm                        | 10       |
| 410.303.17 |                           | 42 x 38 x 40.5 mm                          | 10       |
| 410.303.18 |                           | 45 x 35 x 36.5 mm                          | 10       |
| 410.303.19 |                           | 49.5 x 40 x 40.5 mm                        | 10       |
| 410.303.20 |                           | 53.5 x 48 x 33.5 mm                        | 10       |
| 410.303.21 |                           | 58 x 44 x 45 mm                            | 10       |
| 410.303.22 |                           | 60 x 51 x 56.5 mm                          | 10       |
| 410.303.23 | EURO DESIGN (TRANSLUCENT) | 3.5 x 6.5 x 15 mm                          | 10       |
| 410.303.24 | EURO DESIGN (TRANSLUCENT) | 5 x 9 x 20 mm                              | 10       |
| 410.303.25 | EURO DESIGN (TRANSLUCENT) | 8 x 12 x 20 mm                             | 10       |
| 410.303.26 | EURO DESIGN (TRANSLUCENT) | 10.5 x 14.5 x 20 mm                        | 10       |
| 410.303.27 | EURO DESIGN (TRANSLUCENT) | 12.5 x 16.5 x 20 mm                        | 10       |
| 410.303.28 | EURO DESIGN (TRANSLUCENT) | 14 x 18 x 20 mm                            | 10       |
| 410.303.29 | EURO DESIGN (TRANSLUCENT) | 17 x 22 x 25 mm                            | 10       |
| 410.303.30 | EURO DESIGN (TRANSLUCENT) | 18 x 24 x 30 mm                            | 10       |
| 410.303.31 | EURO DESIGN (TRANSLUCENT) | 21 x 27 x 30 mm                            | 10       |
| 410.303.32 | EURO DESIGN (TRANSLUCENT) | 23 x 29 x 30 mm                            | 10       |
| 410.303.33 | EURO DESIGN (TRANSLUCENT) | 26 x 32 x 30 mm                            | 10       |
| 410.303.34 | EURO DESIGN (TRANSLUCENT) | 29 x 35 x 30 mm                            | 10       |
| 410.303.35 | EURO DESIGN (TRANSLUCENT) | 31 x 38 x 35 mm                            | 10       |
| 410.303.36 | EURO DESIGN (TRANSLUCENT) | 36 x 44 x 40 mm                            | 10       |
| 410.303.37 | EURO DESIGN (TRANSLUCENT) | 41 x 49 x 40 mm                            | 10       |
| 410.303.38 | EURO DESIGN (TRANSLUCENT) | 47 x 55 x 40 mm                            | 10       |
| 410.303.39 | EURO DESIGN (TRANSLUCENT) | 50.5 x 59.5 x 45 mm                        | 10       |
| 410.303.40 | EURO DESIGN (TRANSLUCENT) | 56 x 65 x 45 mm                            | 10       |
| 410.303.41 | EURO DESIGN (TRANSLUCENT) | 60 x 70 x 50 mm                            | 10       |
| 410.303.42 | EURO DESIGN (TRANSLUCENT) | 64.5 x 75.5 x 55 mm                        | 10       |
| 410.303.43 | EURO DESIGN (TRANSLUCENT) | 71 x 83 x 60 mm                            | 10       |
| 410.303.44 | EURO DESIGN (TRANSLUCENT) | 79 x 92 x 65 mm                            | 10       |
| 410.303.45 | EURO DESIGN (TRANSLUCENT) | 87 x 100 x 65 mm                           | 10       |
| 410.303.46 | EURO DESIGN (TRANSLUCENT) | 94 x 107 x 65 mm                           | 10       |

### Rubber Tubing





## Forceps

### Forceps

Stainless Steel straight fine points,  
410 SS Grade

| Item Code  | Size   | Pcs/Pack |
|------------|--------|----------|
| 531.303.01 | 100 mm | 10       |
| 531.303.02 | 125 mm | 10       |
| 531.303.03 | 150 mm | 10       |
| 531.303.04 | 200 mm | 10       |
| 531.303.05 | 250 mm | 10       |
| 531.303.06 | 300 mm | 10       |



### Forceps

Curved Fine Points,  
410 SS Grade

| Item Code  | Size   | Pcs/Pack |
|------------|--------|----------|
| 532.303.01 | 100 mm | 10       |
| 532.303.02 | 125mm  | 10       |
| 532.303.03 | 150 mm | 10       |
| 532.303.04 | 200 mm | 10       |
| 532.303.05 | 250 mm | 10       |
| 532.303.06 | 300 mm | 10       |

### Forceps

Stainless Steel, Straight Blunt Points,  
410 SS Grade

| Item Code  | Size   | Pcs/Pack |
|------------|--------|----------|
| 533.303.01 | 100 mm | 10       |
| 533.303.02 | 125mm  | 10       |
| 533.303.03 | 150 mm | 10       |
| 533.303.04 | 200 mm | 10       |
| 533.303.05 | 250 mm | 10       |
| 533.303.06 | 300 mm | 10       |



### Forceps

Stainless Steel, Straight Blunt Points,  
410 SS Grade

| Item Code  | Size   | Pcs/Pack |
|------------|--------|----------|
| 534.303.01 | 100 mm | 10       |
| 534.303.02 | 125mm  | 10       |
| 534.303.03 | 150 mm | 10       |
| 534.303.04 | 200 mm | 10       |
| 534.303.05 | 250 mm | 10       |
| 534.303.06 | 300 mm | 10       |

PS : All kind of Forceps can also be supplied in 304 Grade Stainless Steel on special request.

### Dissecting Set

of 14 Instruments (Zip Type)

| Item Code  | Description   | Type   |
|------------|---|--------|
| 536.303.01 | made of Stainless Steel, Instruments are Dressing Scissor, Cuticle Scissor, Dressing Forceps, Dissecting Forceps, Flapper, Seeker, Arrow Needle, Needle, Blow Pipe, B.P. Handle with Scalpel Blade, Dropper, Chain Hook, Scalpels, Magnifier Lense. | Zip    |
| 536.303.01 | made of Stainless Steel, Instruments are Dressing Scissor, Cuticle Scissor, Dressing Forceps, Dissecting Forceps, Flapper, Seeker, Arrow Needle, Needle, Blow Pipe, B.P. Handle with Scalpel Blade, Dropper, Chain Hook, Scalpels, Magnifier Lense. | Velcro |



# Spatulas



## Double Spatula

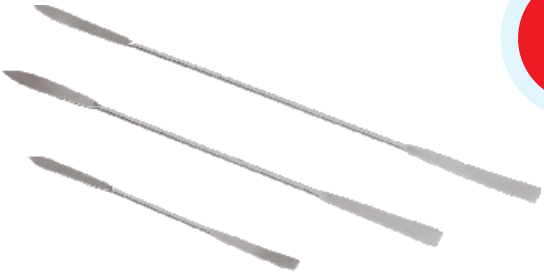
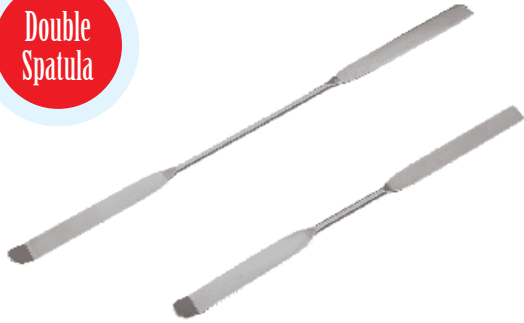
Material : Stainless steel, Grade 202,  
one end Chattaway, one end flat

| Item Code  | Size   | Pcs/Pack |
|------------|--------|----------|
| 375.303.01 | 155 mm | 10       |
| 375.303.02 | 210 mm | 10       |
| 375.303.03 | 250 mm | 10       |

## Spatula

Material : Stainless Steel, Grade 202

| Item Code  | Size   | Type                           | Pcs/Pack |
|------------|--------|--------------------------------|----------|
| 374.303.01 | 125 mm | one end spoon and one end flat | 10       |
| 374.303.02 | 150 mm | one end spoon and one end flat | 10       |
| 374.303.03 | 200 mm | one end spoon and one end flat | 10       |
| 374.303.04 | 250 mm | one end spoon and one end flat | 10       |
| 374.303.05 | 300 mm | one end spoon and one end flat | 10       |
| 374.303.06 | 125 mm | both end flat                  | 10       |
| 374.303.07 | 150 mm | both end flat                  | 10       |
| 374.303.08 | 200 mm | both end flat                  | 10       |
| 374.303.09 | 250 mm | both end flat                  | 10       |



## Double Spatula

Material : Stainless steel, one end tapered,  
one end flat, flexible type, Grade 202

| Item Code  | Size   | Pcs/Pack |
|------------|--------|----------|
| 376.303.01 | 155 mm | 10       |
| 376.303.02 | 260 mm | 10       |
| 376.303.03 | 305 mm | 10       |

## Micro Spatula

Material : Stainless steel, one end spoon  
and one side spatula, Grade 202

| Item Code  | Size   | Pcs/Pack |
|------------|--------|----------|
| 377.303.01 | 155 mm | 10       |



## Spatula Knife

Wooden Handle

| Item Code  | Size   | Pcs/Pack |
|------------|--------|----------|
| 541.303.01 | 100 mm | 6        |
| 541.303.03 | 150 mm | 6        |
| 541.303.04 | 200 mm | 6        |
| 541.303.05 | 250 mm | 6        |
| 541.303.06 | 300 mm | 6        |





## General Labware



### Laboratory Gloves

#### Laboratory Gloves,

Nitrile

| Item Code  | Size            | Pcs/Pack |
|------------|-----------------|----------|
| 505.303.07 | Small, per 100  | 6        |
| 505.303.08 | Medium, per 100 | 6        |
| 505.303.09 | Large, per 100  | 6        |

#### Watch Glass

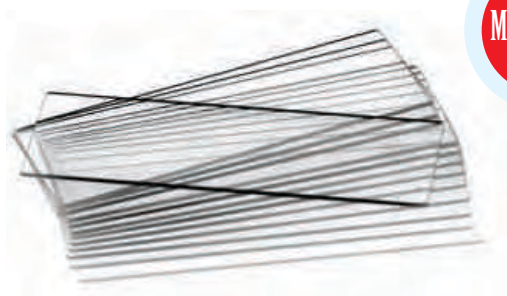
Neutral Glass

| Item Code  | Type   | Pcs/Pack |
|------------|--------|----------|
| 564.303.07 | 50 mm  | 10       |
| 564.303.08 | 65 mm  | 10       |
| 564.303.09 | 75 mm  | 10       |
| 564.303.10 | 100 mm | 10       |
| 564.303.11 | 125 mm | 10       |
| 564.303.12 | 150 mm | 10       |

### Watch Glass



### Microscopic Slides



#### Microscopic Slides

Pack of 50

| Item Code  | Type        | Pcs/Pack |
|------------|-------------|----------|
| 565.303.01 | 76/26 Plain | 10       |

#### Slide Box/Rack

are durable, compact & provide utmost protection to 1"x3' slides. Heavy walls will not warp, splinter or crack. Boxes are unaffected by humidity and are thoroughly insect proof.

Material: Polystyrene

| Cat. No.   | Quantity   | Pcs/Pack |
|------------|------------|----------|
| 129.303.01 | 25 Slides  | 12       |
| 129.303.02 | 50 Slides  | 12       |
| 129.303.03 | 100 Slides | 6        |

### Slides Box/Rack



### Cover Glass



#### Cover Glass

0.13 - 0.17 mm Thickness, Pack of 50

| Item Code  | Type       | Pcs/Pack |
|------------|------------|----------|
| 566.303.01 | 18 x 18 mm | 10       |
| 566.303.02 | 20 x 20 mm | 10       |
| 566.303.03 | 22 x 22 mm | 10       |
| 566.303.04 | 24 x 24 mm | 10       |
| 566.303.05 | 22 x 32 mm | 10       |
| 566.303.06 | 24 x 50 mm | 10       |





## Coplin Jar

made of Polypropylene can hold 10 slides of the size 1" x 3" back to back. The interior of the Coplin Jar is grooved in a way to hold slides in erect position. Domed & shallow thread screw cap provides protection to the slides.

Material : Polypropylene

| Cat. No.   | Type       | Pcs/Pack |
|------------|------------|----------|
| 127.303.01 | Coplin Jar | 12       |



## Storage Boxes

made of polypropylene, prove to be an excellent option for storage of different powdered reagents & other material in the laboratory. Square shape of these boxes help in saving shelf space. Available in three different sizes, these boxes have polypropylene caps, are autoclavable, provide good chemical resistance & heavy duty service.

Material : Polypropylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 189.303.01 | 250 ml   | 12       |
| 189.303.02 | 500 ml   | 12       |
| 189.303.03 | 1000 ml  | 12       |

## Stirrer

made of polypropylene, these Stirrers are very useful for stirring different solutions in the laboratory. These Stirrers prove to be tough and long lasting.

Material : Polypropylene

| Cat. No.   | Dia   | Length | Pcs/Pack |
|------------|-------|--------|----------|
| 193.303.01 | 6 mm  | 150 mm | 12       |
| 193.303.02 | 7 mm  | 200 mm | 12       |
| 193.303.03 | 7 mm  | 250 mm | 12       |
| 193.303.04 | 7 mm  | 300 mm | 12       |
| 193.303.05 | 10 mm | 250 mm | 12       |



## Soft Loop Sterile

Material: Polystyrene

| Cat. No.   | Capacity           | Pcs/Pack |
|------------|--------------------|----------|
| 202.303.01 | 1ul (Soft Loopes)  | 100      |
| 202.303.02 | 10ul (Soft Loopes) | 100      |
| 202.303.03 | Inoculation Needle | 100      |



Filtration  
Labware





Glassco Brand sintered glassware is used for the filtration of liquids and gases in the laboratory. It incorporates a porous glass disc as a filter media, which is non-corrosive and reusable. It is also used for gas washing, dispersion, and adsorption.

Sintered disc is manufactured by crushing Glassco Brand glass, powdering, cleaning, separating into various mesh sizes and then fusing together in the form of a disc. The sintered disc is graded into 5 grades—G1, G2, G3, G4, and G5. The grades are classified by maximum pore size, which is obtained by measuring pressure at which the first air bubble breaks away from the filter under certain conditions. The pressure differential is then used to calculate the equivalent capillary diameters in microns. The desired pore size is obtained by suitably controlling the grain size, firing time, temperature, and the thickness of the disc. Each disc is tested and graded individually.

The pore diameters are reasonably uniform, which ensures required flow rate through the filter.

The flow rate further depends on pressure differential between the two sides of the disc, free area of the discs, viscosity of the fluid being filtered, etc. Between different discs of same size and grade, there is a fair amount of uniformity in pore size and hence the results from two or more discs of the same size and grade will be uniform. This ensures reproducible analytical results.

The discs have maximum surface hardness and hence glass powder does not get scraped off during cleaning or with chemicals. Filters do not shed particles during usage.

The discs are sealed to tubing without blocking the pores. They are annealed properly in automatically controlled lehrs.

### **POROSITY GRADES AND THEIR GENERAL USE**

| Porosity Grade | Pore Size (Microns) | General use  |
|----------------|---------------------|--|
| 1              | 90-150              | Filtration of coarse materials/precipitates, gas dispersion, gas washing, extractor bed, support for other filter materials. |
| 2              | 40-90               | Filtration of medium precipitates, gas dispersion, gas washing.  |
| 3              | 15-40               | Filtration of fine grain precipitates. Analytical work with medium precipitates, mercury filtration.                         |
| 4              | 5-15                | Analytical work with fine and very fine precipitates. Non return mercury valves.   |
| 5              | 1-2                 | Bacteriological filtration.  |

### **Chemical Durability**

Glassco Sintered ware is produced from the same high quality material from which all Glassco Brand borosilicate laboratory glassware are manufactured and thus, have excellent resistance to chemical attack.

### **Operating Pressure**

The sintered discs and the glassware incorporating them are mainly designed for the application of vacuum or for passage of gases at a relatively low pressure. In all cases the differential pressure must not exceed 100 kN/m<sup>2</sup> (15 psi).

### **Thermal Limitations**

The resistance to thermal shock of sintered ware is comparatively less than of standard Glassco glassware. Therefore, articles of sintered ware should not be subjected to excessive temperature changes nor to direct flames.

Glassco Sintered crucibles are particularly suited for drying to constant weight. Dry sintered crucibles at room temperature can be placed directly into a drying oven at 150°C, although customary practice is to dry at 110°C. Sintered ware may safely be heated in furnace to 500°C without ill effect, provided that the cycle of heating and cooling is gradual, strains caused by excessive temperature of apparatus.

Sintered ware of porosity grades 4 and 5 when cold and damp should never be subjected to a sudden temperature change since the evolution of steam may set up sufficient pressure within the filter, to crack it.

Filtration apparatus should be kept on its rim (stem upwards) in oven or sterilizer. A perforated support base is advantageous for air convection in case of pipeline filters. Care should be taken by use of heat insulating material such as asbestos to avoid premature wear near filter seal. Apparatus should remain in the oven of sterilizer during cooling to avoid too fast cooling rate.

### **Cleaning of Sintered Ware**

New sintered filters should be washed carefully with hot hydrochloric acid and then rinsed with distilled water before they are used. This treatment will ensure that all loose particles are removed from the filter.

It is recommended that all sintered filters are thoroughly cleaned "immediately" after use. This is the most favorable time for ease of cleaning and will ensure less risk of contamination in subsequent use.

Many precipitates can be removed from the filter by backflushing with water. However, great care must be taken with large diameters and fine filter, as positive pressures on the reverse side may break the filter.

Under no circumstances, should sintered apparatus be subjected to mains water pressure when back flushing as in most instances a vacuum pump is also effective.

Filters clogged by dust and dirt during gas filtration can be restored by treatment with a warm detergent solution followed by blowing clean air from the clean side of the filter. Dirt particles are brought to the surface by the foam and removed by rinsing with water.

Some precipitates may clog filter which may be removed by chemical cleaning as given below.





# Filtration Glassware



Funnels

Manufactured from **ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS**. These funnels comply to ISO, DIN AND USP standards.

| Item Code    | Diameter (mm) | Pcs/ Pack |
|--------------|---------------|-----------|
| 238.202.01 * | 25            | 10        |
| 238.202.02   | 35            | 10        |
| 238.202.03 * | 38            | 10        |
| 238.202.04 * | 40            | 10        |
| 238.202.05 * | 50            | 10        |
| 238.202.06   | 55            | 10        |
| 238.202.07 * | 65            | 10        |
| 238.202.08 * | 70            | 10        |
| 238.202.09   | 75            | 10        |
| 238.202.10 * | 80            | 10        |
| 238.202.11   | 100           | 10        |
| 238.202.12   | 125           | 10        |
| 238.202.13   | 150           | 10        |

\* Non DIN

## Funnel Powder

| Item Code   | N/S Size | Approx Funnel Diameter | Pack Size |
|-------------|----------|------------------------|-----------|
| 238.202.01P | 14/23    | 45 mm                  | 10        |
| 238.202.02P | 14/23    | 70 mm                  | 10        |
| 238.202.03P | 29/32    | 70 mm                  | 10        |
| 238.202.04P | 29/32    | 80 mm                  | 10        |
| 238.202.05P | 14/23    | 100 mm                 | 10        |
| 238.202.06P | 29/32    | 100 mm                 | 10        |

Funnel Powder with Cone



Funnel Powder

NEW

ASTM

## Powder Funnel

These funnels are made from ASTM E 438 TYPE CLASS A BORO 3.3 GLASS and are made as per **ASTM E 1095** specifications. The funnels come with fire polished rim and stem

| Catalogue No. | Top Diameter | Stem O.D. | Qty Per Pack |
|---------------|--------------|-----------|--------------|
| 238.404.06P   | 60 mm        | 13 mm     | 6            |
| 238.404.08P   | 80 mm        | 15 mm     | 6            |
| 238.404.10P   | 100 mm       | 18 mm     | 6            |
| 238.404.12P   | 125 mm       | 19 mm     | 2            |
| 238.404.15P   | 150 mm       | 19 mm     | 2            |





## Funnels

### Funnel Holder

made of Polypropylene, these corrosion free Funnel Holders can hold funnels with dia 3" to 6". The extra plate provided can be placed to hold funnels bearing dia 1" to 3". Two tapered wedges are provided to ensure firm grip on Rods having dia 1/2" or 3/8".

Material : Polypropylene

| Cat. No.   | Type          | Pcs/Pack |
|------------|---------------|----------|
| 113.303.01 | Funnel Holder | 12       |

### Funnel Holder



### Funnel Long Stem

### Funnels - Long Stem

these long stem funnels have smooth walls, 60° cone angle and external ribs to prevent air lock. Moulded in Polypropylene, these clear funnels can also be steam autoclaved.

Material : Polypropylene

| Cat. No.   | Size   | Inside ø | Stem Length | Pcs/Pack |
|------------|--------|----------|-------------|----------|
| 122.303.04 | 100 mm | 93 mm    | 84 mm       | 36       |
| 122.303.05 | 150 mm | 148 mm   | 55 mm       | 12       |

### Analytical Funnel

Material : Polypropylene

| Cat. No.   | Size (mm)                             | Pcs/Pack |
|------------|---------------------------------------|----------|
| 207.303.01 | 50mm, Inside 50, Stem Length 50, PP   | 72       |
| 207.303.02 | 62mm, Inside 62, Stem Length 67, PP   | 36       |
| 207.303.03 | 75mm, Inside 75, Stem Length 77, PP   | 36       |
| 207.303.04 | 100mm, Inside 100, Stem Length 95, PP | 36       |
| 207.303.05 | 35mm, Inside 35, Stem Length 37, PP   | 80       |

### Analytical Funnel



### Powder Funnel

### Powder Funnel

For transferring powdered reagents. Is unique because of its parallel stem which minimizes bridging of powder. Autoclavable at 120°C.

Material : Polypropylene

| Cat.No.    | O.D. (mm) | I.D. (mm) | Stem Length | Pcs/Pack |
|------------|-----------|-----------|-------------|----------|
| 210.303.01 | 65        | 65        | 22          | 36       |
| 210.303.02 | 80        | 78        | 30          | 36       |
| 210.303.03 | 100       | 100       | 33          | 36       |
| 210.303.04 | 150       | 145       | 30          | 12       |

### Industrial Funnel

For filling carboy's, drums and barrels very conveniently with handle.

Material : Polypropylene

| Cat.No.    | Dia (mm) | Pcs/Pack |
|------------|----------|----------|
| 211.303.01 | 200      | 12       |
| 211.303.02 | 250      | 6        |

### Industrial Funnel



## Buchner Funnels



**Buchner funnels** with sintered disc manufacturer from **ASTM 438 TYPE 1 CLASS A BORO 3.3 GLASS**

| Cat No.    | Capacity (ML) | Disc Dia (MM) | Porosity | Pcs/ Pack |
|------------|---------------|---------------|----------|-----------|
| 256.G00.01 | 35            | 30            | 0        | 2         |
| 256.G01.01 | 35            | 30            | 1        | 2         |
| 256.G02.01 | 35            | 30            | 2        | 2         |
| 256.G03.01 | 35            | 30            | 3        | 2         |
| 256.G04.01 | 35            | 30            | 4        | 2         |
| 256.G00.02 | 80            | 40            | 0        | 2         |
| 256.G01.02 | 80            | 40            | 1        | 2         |
| 256.G02.02 | 80            | 40            | 2        | 2         |
| 256.G03.02 | 80            | 40            | 3        | 2         |
| 256.G04.02 | 80            | 40            | 4        | 2         |
| 256.G00.03 | 200           | 65            | 0        | 2         |
| 256.G01.03 | 200           | 65            | 1        | 2         |
| 256.G02.03 | 200           | 65            | 2        | 2         |
| 256.G03.03 | 200           | 65            | 3        | 2         |
| 256.G04.03 | 200           | 65            | 4        | 2         |
| 256.G00.04 | 500           | 90            | 0        | 2         |
| 256.G01.04 | 500           | 90            | 1        | 2         |
| 256.G02.04 | 500           | 90            | 2        | 2         |
| 256.G03.04 | 500           | 90            | 3        | 2         |
| 256.G04.04 | 500           | 90            | 4        | 2         |
| 256.G00.05 | 1000          | 120           | 0        | 2         |
| 256.G01.05 | 1000          | 120           | 1        | 2         |
| 256.G02.05 | 1000          | 120           | 2        | 2         |
| 256.G03.05 | 1000          | 120           | 3        | 2         |
| 256.G04.05 | 1000          | 120           | 4        | 2         |

### Buchner Funnel, with Fritted Disc

Funnels are made from thick wall and comes with bitted rim printed in white colour enamel. Funnels is made to meet

**Federal specifications DD-F-776.**



| Catalogue No. | Capacity | Disc Diameter | Ht. above Dist | Stem Length | Stem O.D. | Porosity | Qty Per Pack |
|---------------|----------|---------------|----------------|-------------|-----------|----------|--------------|
| 256.C00.00A   | 2 mL     | 10 mm         | 30 mm          | 30 mm       | 7 mm      | Coarse   | 2            |
| 256.M00.00A   | 2 mL     | 10 mm         | 30 mm          | 30 mm       | 7 mm      | Medium   | 2            |
| 256.F00.00A   | 2 mL     | 10 mm         | 30 mm          | 30 mm       | 7 mm      | Fine     | 2            |
| 256.C00.00    | 15 mL    | 20 mm         | 45 mm          | 75 mm       | 8 mm      | Coarse   | 2            |
| 256.M00.00    | 15 mL    | 20 mm         | 45 mm          | 75 mm       | 8 mm      | Medium   | 2            |
| 256.F00.00    | 15 mL    | 20 mm         | 45 mm          | 75 mm       | 8 mm      | Fine     | 2            |
| 256.C00.01    | 30 mL    | 30 mm         | 45 mm          | 75 mm       | 8 mm      | Coarse   | 2            |
| 256.M00.01    | 30 mL    | 30 mm         | 45 mm          | 75 mm       | 8 mm      | Medium   | 2            |
| 256.F00.01    | 30 mL    | 30 mm         | 45 mm          | 75 mm       | 8 mm      | Fine     | 2            |
| 256.C00.02A   | 60 mL    | 40 mm         | 50 mm          | 75 mm       | 10 mm     | Coarse   | 2            |
| 256.M00.02A   | 60 mL    | 40 mm         | 50 mm          | 75 mm       | 10 mm     | Medium   | 2            |
| 256.F00.02A   | 60 mL    | 40 mm         | 50 mm          | 75 mm       | 10 mm     | Fine     | 2            |
| 256.C00.03B   | 150 mL   | 60 mm         | 50 mm          | 75 mm       | 15 mm     | Coarse   | 1            |
| 256.M00.03B   | 150 mL   | 60 mm         | 50 mm          | 75 mm       | 15 mm     | Medium   | 1            |
| 256.F00.03B   | 150 mL   | 60 mm         | 50 mm          | 75 mm       | 15 mm     | Fine     | 1            |
| 256.C00.03A   | 350 mL   | 80 mm         | 75 mm          | 75 mm       | 20 mm     | Coarse   | 1            |
| 256.M00.03A   | 350 mL   | 80 mm         | 75 mm          | 75 mm       | 20 mm     | Medium   | 1            |
| 256.F00.03A   | 350 mL   | 80 mm         | 75 mm          | 75 mm       | 20 mm     | Fine     | 1            |
| 256.C00.05    | 600 mL   | 90 mm         | 90 mm          | 100 mm      | 20 mm     | Coarse   | 1            |
| 256.M00.05    | 600 mL   | 90 mm         | 90 mm          | 100 mm      | 20 mm     | Medium   | 1            |
| 256.F00.05    | 600 mL   | 90 mm         | 90 mm          | 100 mm      | 20 mm     | Fine     | 1            |
| 256.C00.06    | 2000 mL  | 125 mm        | 160 mm         | 110 mm      | 26 mm     | Coarse   | 1            |
| 256.M00.06    | 2000 mL  | 125 mm        | 160 mm         | 110 mm      | 26 mm     | Medium   | 1            |
| 256.C00.07    | 3000 mL  | 150 mm        | 170 mm         | 110 mm      | 26 mm     | Coarse   | 1            |
| 256.M00.07    | 3000 mL  | 150 mm        | 170 mm         | 110 mm      | 26 mm     | Medium   | 1            |



## Buchner Funnels & Crucibles



**Buchner  
Funnels PP**

### Buchner Funnel

moulded in Polypropylene, these two piece funnels are light weight, easy to clean & autoclavable. The top portion can be snap fitted with the lower one forming a vacuum seal which does not require greasing. The base of the top portion has a perforated filter plate.

Material : Polypropylene

| Cat No.    | Size   | Pcs/Pack |
|------------|--------|----------|
| 123.303.01 | 70 mm  | 12       |
| 123.303.02 | 110 mm | 6        |
| 123.303.03 | 90 mm  | 6        |

### Buchner Funnel, Porcelain

EURO DESIGN made of porcelain, maximum temperature upto 1000°C

| Cat. No.   | Dia (mm (OD x H)) | Pcs/Pack |
|------------|-------------------|----------|
| 527.303.10 | 20 mm x 64 mm     | 10       |
| 527.303.11 | 51 mm x 89 mm     | 10       |
| 527.303.12 | 67 mm x 110 mm    | 6        |
| 527.303.13 | 84 mm x 143 mm    | 4        |
| 527.303.14 | 105 mm x 160 mm   | 2        |
| 527.303.15 | 125 mm x 195 mm   | 2        |
| 527.303.16 | 142 mm x 202 mm   | 1        |
| 527.303.17 | 170 mm x 221 mm   | 1        |
| 527.303.18 | 210 mm x 270 mm   | 1        |
| 527.303.19 | 270 mm x 350 mm   | 1        |



**Buchner  
Funnel  
Porcelain**



**Filter  
Crucible**

**Filter Crucible** with sintered disc manufacturer from **ASTM E 438 TYPE 1 CLASS A BORO 3.3 GLASS.**

| Cat No.    | Porosity | Capacity (ML) | Pcs/ Pack |
|------------|----------|---------------|-----------|
| 255.G00.01 | 0        | 15            | 10        |
| 255.G01.01 | 1        | 15            | 10        |
| 255.G02.01 | 2        | 15            | 10        |
| 255.G03.01 | 3        | 15            | 10        |
| 255.G04.01 | 4        | 15            | 10        |
| 255.G00.02 | 0        | 30            | 10        |
| 255.G01.02 | 1        | 30            | 10        |
| 255.G02.02 | 2        | 30            | 10        |
| 255.G03.02 | 3        | 30            | 10        |
| 255.G04.02 | 4        | 30            | 10        |
| 255.G00.03 | 0        | 50            | 10        |
| 255.G01.03 | 1        | 50            | 10        |
| 255.G02.03 | 2        | 50            | 10        |
| 255.G03.03 | 3        | 50            | 10        |
| 255.G04.03 | 4        | 50            | 10        |

### Crucible Holders

| Cat. No.   | Type                             | Pcs/Pack |
|------------|----------------------------------|----------|
| 416.303.01 | Set of 7, made of Natural Rubber | 1        |
| 416.303.02 | Set of 7, made of Silicon        | 1        |

**Crucible  
Holders**



PS : For Silica, Quartz & Porcelain Crucible Refer to page 109





# Filtration Glassware



## All-Glass Filter Holder

For 47 mm Disc Filters

**Applications:**

This is used in vacuum filter aqueous, organic or corrosive liquids for particulate contamination analysis. Also recommended for HPLC solvent filtration.

**Specifications:**

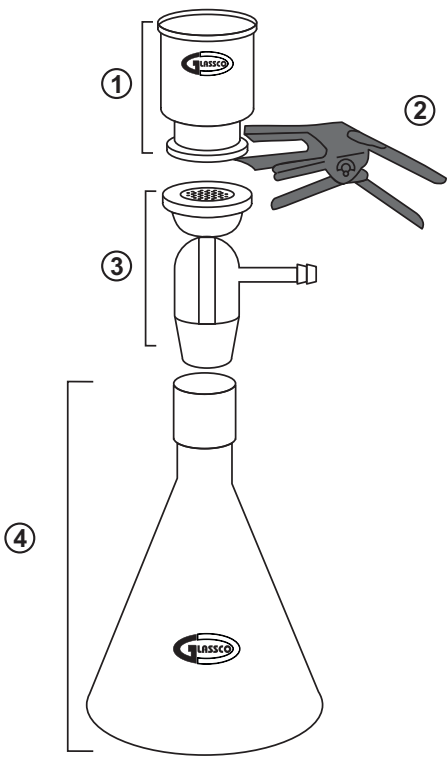
|                                  |   |
|----------------------------------|---|
| Materials                        | Borosilicate glass funnel, base and tubulated cap; anodized aluminum spring clamp; fritted glass filter support |
| 258.202.01                       |   |
| Filter Diameter, mm              | 47  |
| Filtration Area, cm <sup>2</sup> | 9.6   |
| Funnel Capacity, ml              | Funnel: 300 ml; flask: 1 l  |
| Outlet Fitting                   | 6 mm (1/4 in.) O.D. tubulated cap sidearm to vacuum   |

**Ordering Information:**

| Catalogue No. | Description  |
|---------------|--|
| 258.202.01    | All-Glass Filter Holder Assembly with funnel, fritted base & cap, clamp 47 mm, ground joint flask 1 Ltr. |

**Replacement Parts**

| Catalogue No. | Description                        |
|---------------|------------------------------------|
| 258.245.01    | Glass funnel, 300 ml, borosilicate |
| 258.245.02    | Spring clamp, 47 mm, aluminum      |
| 258.245.03    | Glass Base & Cap, 47 mm            |
| 258.245.04    | Ground Joint Flask, 1000ml         |



| Replacement Parts: |                                      |
|--------------------|--------------------------------------|
| 1                  | Funnel 300 ml                        |
| 2                  | Clamp 47 mm                          |
| 3                  | Vacuum Base 47 mm with Sintered Disc |
| 4                  | Ground Joint Flask 1000 ml           |



## Filtration Glassware

### Glass Microanalysis Filter Holders

For 25 mm Disc Filters

#### Applications:

This is used to filter under vacuum/small volumes for particulate or biological contamination analysis. Filter is available in fritted glass or stainless steel. Thick prefilters or laminated filters will not seal in this holder. You may use Durapore (PVDF) membrane or unlaminated PTFE for solvent applications with this apparatus.

#### Specifications:

##### Materials

|                                  |   |
|----------------------------------|---|
| 259.202.01                       | Borosilicate glass funnel and base; fritted glass filter support; anodized aluminum spring clamp; silicone stopper                    |
| 259.202.03                       | Borosilicate glass funnel and base; removable stainless steel screen filter support; anodized aluminum spring clamp; silicone stopper |
| Filter Diameter, mm              | 25  |
| Filtration Area, cm <sup>2</sup> | 2.5   |
| Funnel Capacity, ml              | 15  |
| Outlet Fitting                   | No. 5 perforated silicone stopper mounts in standard 125 ml filtering flask   |
| Dimensions                       |   |
| Height, cm                       | 15.2  |
| Diameter, cm                     | 2.5   |

#### Ordering Information:

##### Catalogue No.

259.202.01

##### Replacement Parts

|            |  |
|------------|--|
| 259.245.01 | Funnel, 15 ml, borosilicate glass      |
| 259.245.02 | Fritted Glass Base with stopper, 25 mm |
| 259.245.03 | Spring Clamp, 25 mm, aluminum          |
| 259.245.06 | No. 5 perforated stopper, silicone     |

##### Catalogue No.

259.202.03

##### Replacement Parts

|            |  |
|------------|--|
| 259.245.01 | Funnel, 15 ml, borosilicate glass      |
| 259.245.03 | Spring Clamp, 25 mm, aluminum          |
| 259.245.05 | Base stopper & stainless steel screen  |
| 259.245.06 | No. 5 perforated stopper, silicone     |
| 259.245.07 | Gaskets, Teflon                        |
| 259.245.08 | Support Screen, 25 mm, stainless steel |

##### Optional Accessories

|            |                                |
|------------|--------------------------------|
| 259.245.04 | Vacuum filtering flask, 125 ml |
|------------|--------------------------------|

##### Description

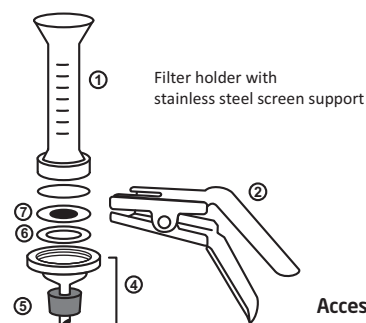
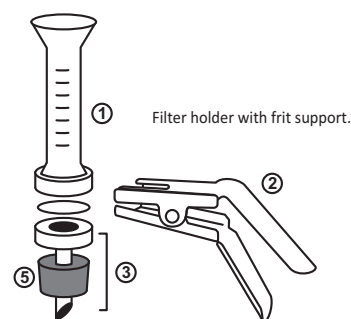
Microanalysis Filter Holder, 25 mm, fritted glass support

Funnel, 15 ml, borosilicate glass  
Fritted Glass Base with stopper, 25 mm  
Spring Clamp, 25 mm, aluminum  
No. 5 perforated stopper, silicone

##### Description

Microanalysis Filter Holder, 25 mm, stainless steel support

Funnel, 15 ml, borosilicate glass  
Spring Clamp, 25 mm, aluminum  
Base stopper & stainless steel screen  
No. 5 perforated stopper, silicone  
Gaskets, Teflon  
Support Screen, 25 mm, stainless steel



#### Accessories



Filter Flask 125 ml

#### Replacement Parts:

|   |                          |
|---|--------------------------|
| 1 | Glass Funnel 15 ml       |
| 2 | Clamp 25 mm              |
| 3 | Fritted Glass Base 25 mm |
| 4 | Base 25 mm               |
| 5 | Stopper No. 5            |
| 6 | Teflon Gasket            |
| 7 | Screen 25 mm             |

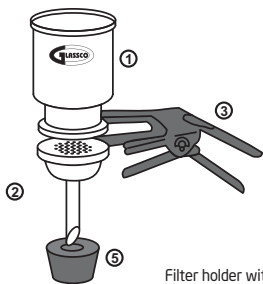




# Filtration Glassware

## Glass Filter Holder

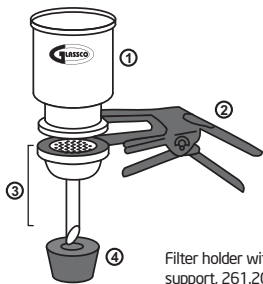
For 47 mm Disc Filters



**Replacement Parts:**

- 1. Funnel 300 ml
- 2. Base 47 mm Frit
- 3. Clamp 47 mm
- 5. Stopper 8 No.

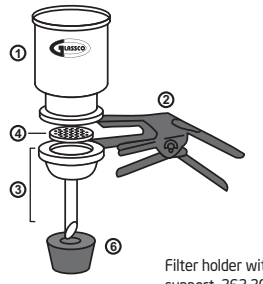
Filter holder with glass filter support, 260.202.01



**Replacement Parts:**

- 1. Funnel 300 ml Teflon Coated
- 2. Clamp 47 mm
- 3. Base 47 mm Frit Teflon Coated
- 4. Stopper 8 No.

Filter holder with PTFE-faced filter support, 261.202.01



**Replacement Parts:**

- 1. Funnel 300 ml
- 2. Clamp 47 mm
- 3. Base 47 mm
- 4. Screen 47 mm
- 5. PTFE Gasket
- 6. Stopper No. 8

Filter holder with stainless steel screen filter support, 262.202.01

**Applications:**

- Use 260.202.01 for**
  - Bacteriological analysis of water (using 47 mm sterile membrane filters)
  - Analysis of suspended solids in water (using 47 mm depth filters)
- Use 261.202.01 for**
  - Bacteriological analysis applications where autoclaving filter holder with membrane in place needed
- Use 262.202.01 for**
  - Particulate contamination analysis of oils and hydraulic fluids by gravimetric or particulate counting methods
  - Exfoliative cytology applications

**Specifications:**

| Materials of Construction        |  |
|----------------------------------|--|
| 260.202.01                       | Borosilicate glass funnel and base; anodized aluminum spring clamp; silicone stopper |
| 261.202.01                       | Coarse-frit glass filter support   |
| 262.202.01                       | PTFE-faced funnel and base   |
| Filter Diameter, mm              | 47   |
| Filtration Area, cm <sup>2</sup> | 9.6  |
| Funnel Capacity, mL              | 300; accessory 1 L is available  |
| Prefilter Diameter, mm           | 35 (thick depth prefilter) or 47 (membrane prefilter)                                |
| Outlet Fitting                   | No. 8 perforated silicone stopper mounts in standard 1 L and 4 L filtering flasks    |
| Dimensions                       |  |
| Height, cm                       | 22.9   |
| Diameter, cm                     | 7.6  |
| Sterilization Method             |  |
| 260.202.01 and 261.202.01        | 30 UV sterilize or autoclave without filter in-place                                 |
| 262.202.01                       | Autoclave with filter in-place   |





# Filtration Glassware

## Glass Filter Holders

For 47 mm Disc Filters

### Ordering Information:

#### Catalogue No.

260.202.01

#### Description

Glass filter holder assembly with funnel, fritted base, stopper, clamp, 47 mm

#### Replacement Parts:

260.245.01

Glass funnel, 300 ml, borosilicate

260.245.02

Base for 47 mm glass/filter holder

260.245.03

Spring clamp, 47 mm, aluminum

260.245.05

No. 8 perforated stopper, silicone

#### Catalogue No.

261.202.01

#### Description

Glass filter holder assembly, PTFE-coated, with PTFE coated funnel and PTFE coated base, stopper clamp no. 8, 47 mm, Frit

#### Replacement Parts:

261.245.01

PTFE-faced Glass Filter Holder

261.245.02

Funnel, PTFE-faced, 300 ml

261.245.03

Spring clamp, 47 mm, aluminum

261.245.04

Glass base, PTFE-faced, 47 mm

No. 8 perforated stopper, silicone

#### Catalogue No.

262.202.01

#### Description

Glass filter holder with stainless steel screen, 47 mm

#### Replacement Parts:

262.245.01

Stainless Screen Glass Filter Holder

262.245.02

Glass funnel, 300 ml, borosilicate

262.245.03

Spring clamp, 47 mm, aluminum

262.245.04

Glass base, 47 mm

262.245.05

Support screen, 47 mm, stainless steel

262.245.06

Gasket, PTFE

No. 8 perforated stopper, silicone

#### Optional Accessories

260.245.04

Vacuum filtering flask, 1 Ltr

260.245.08

Vacuum filtering flask, 4 Ltr



260.245.08





## Filtration Glassware

### All-Glass Filter Holder

For 90 mm Disc Filters

#### Applications:

This is used in vacuum filter aqueous, organic or corrosive liquids for particulate contamination analysis. Also recommended for HPLC solvent filtration.



#### Specifications:

|                     |   |
|---------------------|---|
| Materials           | Borosilicate glass funnel, base and tubulated cap; PTFE-coated stainless steel screen; anodized aluminum spring clamp |
| Filter Diameter, mm | 90  |
| Funnel Capacity, L  | 1   |
| Outlet Fitting      | 6 mm (1/4 in.) O.D. tubulated cap sidearm to vacuum   |



258.245.04

#### Ordering Information:

| Cat. No.   | Description  |
|------------|--|
| 263.202.01 | Glass Filter Holder with stainless steel screen, 90 mm |

#### Replacement Parts

| Cat. No.   | Description                                |
|------------|--|
| 263.245.01 | Funnel, 1L, 90 mm, ground glass seal       |
| 263.245.02 | Vacuum Base and Cap, 90 mm                 |
| 263.245.03 | Stainless Steel Screen, PTFE coated, 90 mm |
| 263.245.04 | Gasket, PTFE 90 mm                         |
| 263.245.05 | Spring Clamp, 90 mm anodized aluminum      |

#### Optional Accessories

| Cat. No.   | Description             |
|------------|-------------------------|
| 258.245.04 | Ground Joint Flask, 1 L |
| 263.245.06 | Bottle 2 L              |
| 263.245.07 | Bottle 5 L              |



263.245.07



263.245.06



A close-up photograph of various laboratory glassware. In the foreground, a 50ml glass stopcock is partially filled with a clear liquid. Behind it, a larger 300ml glass bottle with a stopper is visible. To the right, a portion of a blue-capped bottle is seen. The background shows other glassware, including one with a silver cap. The entire scene is set against a warm, reddish-orange background.

# Bottles & Stopcocks



# Bottles

**Weighing Bottles**, Ground In Stopper Manufactured from ASTM 438 TYPE 1 BORO 3.3 GLASS

| Cat No.    | O.D. x Ht. (ml) | Form       | Capacity (ml) | Pcs/ Pack |
|------------|-----------------|------------|---------------|-----------|
| 264.202.01 | 40 x 30         | Squat Form | 20            | 10        |
| 264.202.02 | 50 x 25         | "          | 20            | 10        |
| 264.202.03 | 50 x 35         | "          | 35            | 10        |
| 264.202.04 | 50 x 50         | "          | 50            | 10        |
| 264.202.05 | 60 x 30         | "          | 40            | 10        |
| 264.202.06 | 20 x 40         | Tall Form  | 5             | 10        |
| 264.202.07 | 25 x 50         | "          | 15            | 10        |
| 264.202.08 | 30 x 60         | "          | 25            | 10        |
| 264.202.09 | 40 x 80         | "          | 60            | 10        |



**Pycnometers to Gay - Lussac**, Calibrated  
Manufactured from ASTM 438 TYPE 1 BORO 3.3 GLASS, DIN ISO 3507

| Cat No.    | Capacity (ml) | Tolerance (±ml) | Pcs/ Pack |
|------------|---------------|-----------------|-----------|
| 268.202.01 | 10            | 1.0             | 2         |
| 268.202.02 | 25            | 2.0             | 2         |
| 268.202.03 | 50            | 3.0             | 2         |
| 268.202.04 | 100           | 3.0             | 2         |

**Pycnometers to Gay - Lussac**, Uncalibrated  
Manufactured from ASTM 438 TYPE 1 3.3 GLASS

| Cat No.    | Capacity (ml) | Pcs/ Pack |
|------------|---------------|-----------|
| 269.202.01 | 10            | 2         |
| 269.202.02 | 25            | 2         |
| 269.202.03 | 50            | 2         |
| 269.202.04 | 100           | 2         |





## Bottles



### Reagent Bottles

**Bottles Reagent** narrow mouth, manufactured from ASTM E 438 TYPE 1 BORO 3.3 GLASS in compliance to DIN ISO 4796 - 2 standards with standard ground joint & PP stopper, **EN ISO 4796**

| Clear Glass Cat No. | Amber Glass Cat No. | Capacity (ml) | N/S   | Pcs/ Pack |
|---------------------|---------------------|---------------|-------|-----------|
| 272.232.02 A        | 273.232.02 A        | 50            | 14/23 | 10        |
| 272.232.03          | 273.232.03          | 100           | 14/23 | 10        |
| 272.232.04          | 273.232.04          | 250           | 19/26 | 10        |
| 272.232.05          | 273.232.05          | 500           | 24/29 | 10        |
| 272.232.06          | 273.232.06          | 1000          | 29/32 | 10        |
| 272.232.07          | 273.232.07          | 2000          | 29/32 | 10        |

\* These Bottles can also be supplied with Glass Stoppers.  
Please ask for the same separately.

### Reagent Bottle

Narrow mouth in conformity with **ASTM E 438, TYPE 1 CLASS A BORO 3.3 GLASS**, these bottles come with pressed flat stopper

| Catalogue No. | Capacity | Stopper No. | Qty Per Pack |
|---------------|----------|-------------|--------------|
| 272.207.03A   | 125ml    | 19          | 1            |
| 272.207.04    | 250ml    | 19          | 1            |
| 272.207.05    | 500ml    | 24          | 1            |
| 272.207.06    | 1000ml   | 29          | 1            |
| 272.207.07    | 2000ml   | 29          | 1            |

### Reagent Bottles

NEW

ASTM



**Bottles Reagent** narrow mouth, manufactured from ASTM E 438 TYPE 1 BORO 3.3 GLASS in compliance to DIN ISO 4796 - 1 standards **AUTOCLAVABLE SCREW CAP AND POURING RING**, **EN ISO 4796**

| Clear Glass Cat No. | Amber Glass Cat No. | Capacity (ml) | D   | H   | Pcs/ Pack |
|---------------------|---------------------|---------------|-----|-----|-----------|
| 274.202.01          | 275.202.01          | 100           | 56  | 100 | 10        |
| 274.202.02          | 275.202.02          | 250           | 70  | 138 | 10        |
| 274.202.03          | 275.202.03          | 500           | 86  | 176 | 10        |
| 274.202.04          | 275.202.04          | 1000          | 101 | 225 | 10        |
| 274.202.05          | 275.202.05          | 2000          | 136 | 260 | 10        |

### Laboratory Bottles



Glassco Brand

BORO 3.3  
1000 ml

Type or Glass  
Heat Resistant Boro 3.3

Nominal Volume



Retrace Code  
GL082014D

Retrace Code



275.205.02 Blue colour pouring ring



275.205.01 Blue colour screw cap GL 45



# Bottles



**Dropping Bottles**, Manufactured from ASTM E 438 TYPE 1 BORO 3.3 GLASS fitted with ground in interchangeable stopper and rubber teat.

| Cat No.    | Capacity (ml) | Pcs/ Pack |
|------------|---------------|-----------|
| 279.202.01 | 30            | 10        |
| 279.202.02 | 60            | 10        |
| 279.202.03 | 120           | 10        |
| 279.202.04 | 250           | 10        |



**Amber Dropping Bottles**, Manufactured from ASTM E 438 TYPE 1 BORO 3.3 GLASS fitted with ground in interchangeable stopper and rubber teat.

| Cat No.    | Capacity (ml) | Pcs/ Pack |
|------------|---------------|-----------|
| 279.229.01 | 30            | 10        |
| 279.229.02 | 60            | 10        |
| 279.229.03 | 120           | 10        |
| 279.229.04 | 250           | 10        |

**Mac-Cartney Bottles**, Complete with Aluminium Cap Manufactured Iron Soda Glass

| Cat No.    | Capacity (ml) | Pcs/ Pack |
|------------|---------------|-----------|
| 283.202.01 | 15            | 100       |
| 283.202.02 | 30            | 100       |
| 283.202.03 | 60            | 100       |





## BOD Bottles

BOD Bottles for incubating diluted samples of clean water, waster water, effluent water and polluted water during the 5 day biochemical oxygen demand (BOD) test. These BOD bottles feature a flared mouth to form a water seal to prevent the ingress of air during incubation. The interchangeable stoppers have a tapered bottom that also prevents air entrapment.

The stopper joint on BOD bottles is compatible with the probes of leading BOD and DO meters. Bottles have large, permanent marking squares.

Featuring the best quality of glass on the market, BOD bottles are manufactured from high-quality Borosilicate tubing; this type of glass makes them much less susceptible to etching when compared to traditional BOD bottles.

Bottles meet **ASTM E-438 Type 1, Class A** Borosilicate Glass specifications. These bottles come in numbered and un numbered version and also in penny head or robotic stopper .



BOD  
Bottles



NEW

ASTM



| Catalogue No. | Capacity          | Number Sequence | Stopper Type    | Qty Per Pack |
|---------------|-------------------|-----------------|-----------------|--------------|
| 284.456.01    | 60 mL             | Unnumbered      | Glass Pennyhead | 1            |
| 284.451.01A   | 60 mL             | 1-36            | Glass Pennyhead | 1            |
| 284.451.01B   | 60 mL             | 37-72           | Glass Pennyhead | 1            |
| 284.451.01C   | 60 mL             | 73-108          | Glass Pennyhead | 1            |
| 284.453.01    | 60 mL             | Unnumbered      | Glass Robotic   | 1            |
| 284.453.01A   | 60 mL             | 1-36            | Glass Robotic   | 1            |
| 284.453.01B   | 60 mL             | 37-72           | Glass Robotic   | 1            |
| 284.453.01C   | 60 mL             | 73-108          | Glass Robotic   | 1            |
| 284.456.02    | 300 mL            | Unnumbered      | Glass Pennyhead | 1            |
| 284.456.02R   | Bar-Coded, 300 mL | 1-24            | Glass Pennyhead | 1            |
| 284.456.02A   | Bar-Coded, 300 mL | 25-48           | Glass Pennyhead | 1            |
| 284.456.02B   | Bar-Coded, 300 mL | 49-72           | Glass Pennyhead | 1            |
| 284.456.02C   | Bar-Coded, 300 mL | 73-96           | Glass Pennyhead | 1            |
| 284.456.02D   | Bar-Coded, 300 mL | 97-120          | Glass Pennyhead | 1            |
| 284.456.02E   | Bar-Coded, 300 mL | 121-144         | Glass Pennyhead | 1            |
| 284.456.02F   | Bar-Coded, 300 mL | 145-168         | Glass Pennyhead | 1            |
| 284.456.02G   | Bar-Coded, 300 mL | 169-192         | Glass Pennyhead | 1            |
| 284.456.02H   | Bar-Coded, 300 mL | 193-216         | Glass Pennyhead | 1            |
| 284.456.02I   | Bar-Coded, 300 mL | 217-240         | Glass Pennyhead | 1            |
| 284.456.02J   | Bar-Coded, 300 mL | 241-264         | Glass Pennyhead | 1            |
| 284.456.02K   | Bar-Coded, 300 mL | 265-288         | Glass Pennyhead | 1            |
| 284.456.02L   | Bar-Coded, 300 mL | 289-312         | Glass Pennyhead | 1            |
| 284.456.02M   | Bar-Coded, 300 mL | 313-336         | Glass Pennyhead | 1            |
| 284.456.02N   | Bar-Coded, 300 mL | 337-360         | Glass Pennyhead | 1            |
| 284.456.02O   | Bar-Coded, 300 mL | 361-384         | Glass Pennyhead | 1            |
| 284.456.02P   | Bar-Coded, 300 mL | 385-408         | Glass Pennyhead | 1            |
| 284.456.02Q   | Bar-Coded, 300 mL | 409-432         | Glass Pennyhead | 1            |
| 284.455.02    | 300 mL            | Unnumbered      | Glass Robotic   | 1            |
| 284.455.02A   | Bar-Coded, 300 mL | 1-24            | Glass Robotic   | 1            |
| 284.455.02B   | Bar-Coded, 300 mL | 25-48           | Glass Robotic   | 1            |
| 284.455.02C   | Bar-Coded, 300 mL | 49-72           | Glass Robotic   | 1            |
| 284.455.02D   | Bar-Coded, 300 mL | 73-96           | Glass Robotic   | 1            |
| 284.455.02E   | Bar-Coded, 300 mL | 97-120          | Glass Robotic   | 1            |
| 284.455.02F   | Bar-Coded, 300 mL | 121-144         | Glass Robotic   | 1            |
| 284.455.02G   | Bar-Coded, 300 mL | 145-168         | Glass Robotic   | 1            |
| 284.455.02H   | Bar-Coded, 300 mL | 169-192         | Glass Robotic   | 1            |
| 284.455.02I   | Bar-Coded, 300 mL | 193-216         | Glass Robotic   | 1            |
| 284.455.02J   | Bar-Coded, 300 mL | 217-240         | Glass Robotic   | 1            |
| 284.455.02K   | Bar-Coded, 300 mL | 241-264         | Glass Robotic   | 1            |
| 284.455.02L   | Bar-Coded, 300 mL | 265-288         | Glass Robotic   | 1            |
| 284.455.02M   | Bar-Coded, 300 mL | 289-312         | Glass Robotic   | 1            |
| 284.455.02N   | Bar-Coded, 300 mL | 313-336         | Glass Robotic   | 1            |
| 284.455.02O   | Bar-Coded, 300 mL | 337-360         | Glass Robotic   | 1            |
| 284.455.02P   | Bar-Coded, 300 mL | 361-384         | Glass Robotic   | 1            |
| 284.455.02Q   | Bar-Coded, 300 mL | 385-408         | Glass Robotic   | 1            |
| 284.455.02R   | Bar-Coded, 300 mL | 409-432         | Glass Robotic   | 1            |



# Gas Wash Bottles



## Head for Gas Bottles, DIN 12596

| Cat No.    | Capacity | Pcs/ Pack |
|------------|----------|-----------|
| 285.202.01 | 125ml    | 1         |
| 285.202.02 | 250ml    | 1         |
| 285.202.03 | 500ml    | 1         |



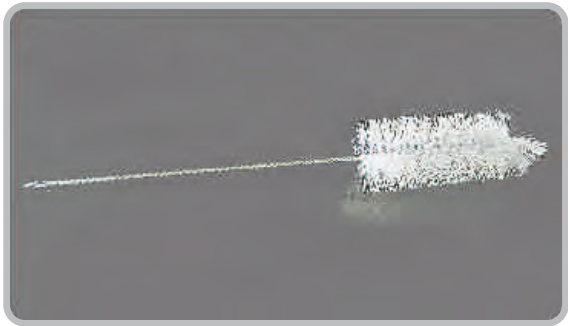
## Gas Washing Bottle, Interchangeable joints, DIN 12596, 12463

| Cat No.    | Capacity (ml) | Pcs/ Pack |
|------------|---------------|-----------|
| 286.202.01 | 125ml         | 1         |
| 286.202.02 | 250ml         | 1         |
| 286.202.03 | 500ml         | 1         |



## Sintered Wash Bottles Head, DIN 12596

| Cat No.    | Capacity | Pcs/ Pack |
|------------|----------|-----------|
| 287.202.01 | 125ml    | 1         |
| 287.202.02 | 250ml    | 1         |
| 287.202.03 | 500ml    | 1         |



## Brush, Bottle

| Cat. No.   | Type         | Material | Pcs/Pack |
|------------|--------------|----------|----------|
| 593.303.01 | Bottle Brush | Nylon    | 50       |





### Dropping Bottles

blown in Low Density Polyethylene, Glassco Dropping Bottles dispense small uniform drops of liquids when pressed lightly.

Material : Low Density Polyethylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 105.303.01 | 60 ml    | 12       |
| 105.303.02 | 125 ml   | 12       |

Dropping  
Bottles



Reagent  
Bottles  
Narrow

### Reagent Bottles (Narrow Mouth)

these Narrow Mouth Reagent Bottles are available in Polypropylene as well as Polyethylene. The PP bottles are rigid, translucent and have excellent contact clarity. These bottles can be autoclaved filled as well as empty. On the other hand, the Polyethylene bottle too have excellent strength and are unbreakable. The Polypropylene Cap has a built in seal ring to make these bottles leakproof.

Material : Polypropylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 106.303.01 | 60 ml    | 12       |
| 106.303.02 | 125 ml   | 12       |
| 106.303.03 | 250 ml   | 12       |
| 106.303.04 | 500 ml   | 12       |
| 106.303.05 | 1000 ml  | 6        |
| 106.303.06 | 4 ml     | 12       |
| 106.303.07 | 8 ml     | 12       |
| 106.303.08 | 15 ml    | 12       |
| 106.303.09 | 30 ml    | 12       |

### Reagent Bottles (Wide Mouth)

are available in Polypropylene as well as Polyethylene. The PP bottles are rigid, translucent and have excellent contact clarity. These bottles can be autoclaved filled as well as empty. On the other hand, the Polyethylene bottles too have excellent strength and are unbreakable. The Polypropylene Cap has a built in seal ring to make these bottles leakproof.

Material : Polypropylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 107.303.01 | 60 ml    | 12       |
| 107.303.02 | 125 ml   | 12       |
| 107.303.03 | 250 ml   | 12       |
| 107.303.04 | 500 ml   | 12       |
| 107.303.05 | 1000 ml  | 6        |
| 107.303.06 | 30 ml    | 12       |

Reagent  
Bottles  
Wide





## Aspirator Bottles

are made of Polypropylene and are therefore much lighter than glass. These are autoclavable, durable & dependable. The leakproof spigot screwed to the bottle body requires only a half turn to open or close. These bottles are used for storing or dispensing distilled water & other laboratory solutions. Threads should be totally disengage before autoclaving.

Material : Polypropylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 108.303.04 | 2 Ltr.   | 1        |
| 108.303.01 | 6 Ltr.   | 1        |
| 108.303.02 | 10 Ltr.  | 1        |
| 108.303.03 | 20 Ltr.  | 1        |



## Wash Bottles

## Wash Bottles

are made of Low Density Polyethylene which gives these bottles a translucent & unbreakable character. Solutions can be poured easily by squeezing the bottle lightly. The cap is fitted with a flexible polyethylene delivery tube which can be aimed wherever required.

Material : Polyethylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 109.303.01 | 125 ml   | 12       |
| 109.303.02 | 250 ml   | 12       |
| 109.303.03 | 500 ml   | 6        |
| 109.303.04 | 1000 ml  | 6        |



## Wash Bottles (New Type)

are also made of Low Density Polyethylene and are therefore translucent & unbreakable. The distinguishing feature that these bottles contain is the built in delivery tube making it a one piece Wash Bottle. These Bottles are graduated on the outer surface to give an approximate idea about the volume of solution filled or dispensed.

Material : Low Density Polyethylene

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 110.303.01 | 250ml    | 12       |
| 110.303.02 | 500ml    | 12       |
| 110.303.03 | 125ml    | 12       |



## Carboy

## Carboy

Material : Polypropylene, Autoclavable

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 195.303.01 | 10ltr    | 1        |
| 195.303.02 | 20Ltr    | 1        |



**Carboy With Stop Cock**

Material : Polypropylene, Autoclavable

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 196.303.01 | 10 Ltr   | 1        |
| 196.303.02 | 20 Ltr   | 1        |

Carboy  
with  
Stop Cock



Narrow  
Mouth  
Bottle

**Narrow Mouth Bottle**

Material : Polypropylene, Autoclavable

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 197.303.01 | 4000 ml  | 1        |

Wide Mouth  
Square  
Bottle

**Wide Mouth Square Bottle**

Material : Polypropylene, Autoclavable

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 198.303.01 | 4000 ml  | 1        |



Heavy Duty  
Vacuum  
Bottle

**Heavy Duty Vacuum Bottle**

Material : Polypropylene, Autoclavable

| Cat. No.   | Capacity | Pcs/Pack |
|------------|----------|----------|
| 199.303.01 | 2000 ml  | 1        |





## "SAFE - HANDLE"

Safety  
Jar for  
Glass Bottle

Glass bottles are clean, dependable containers for liquid but they can present a serious safety hazard when broken. By containing liquid spills and broken glass, the "Safe-Handle" protects people and property from glass shards and exposure to flammable or hazardous liquid.

### Designed For Safety :

- Minimizes spills and prevents breakage
- Meets secondary containment requirement
- Easy mechanism
- Environmentally friendly
- No effect on product quality
- Suitable for 2.5 ltr. glass bottle
- Prevent breakage and minimizes spills
- Meets secondary containment requirements
- Easy-to-use mechanism
- Is Environmentally responsible
- Does not contaminate liquids



### 6 Easy steps to greater lab safety.



**Step 1.**  
Disengage Bottom & top of Safe-Handle.



**Step 4.**  
When the bottle is empty, place the Safe-Handle. While holding the bottom handle with one hand, turn the top handle with the other hand in a clockwise direction until the lugs click into place.



**Step 2.**  
Carefully place the bottle in the bottom portion of the Safe-Handle.



**Step 5.**  
Lock the top of the container to the bottom by pressing the handle lock mechanism until it snaps together. Ensure that the locking mechanism is engaged before carrying or dispensing liquid.



**Step 3.**  
Lower the Safe-Handle top over the neck of the bottle. Line up the indicator arrows to ensure assembly.



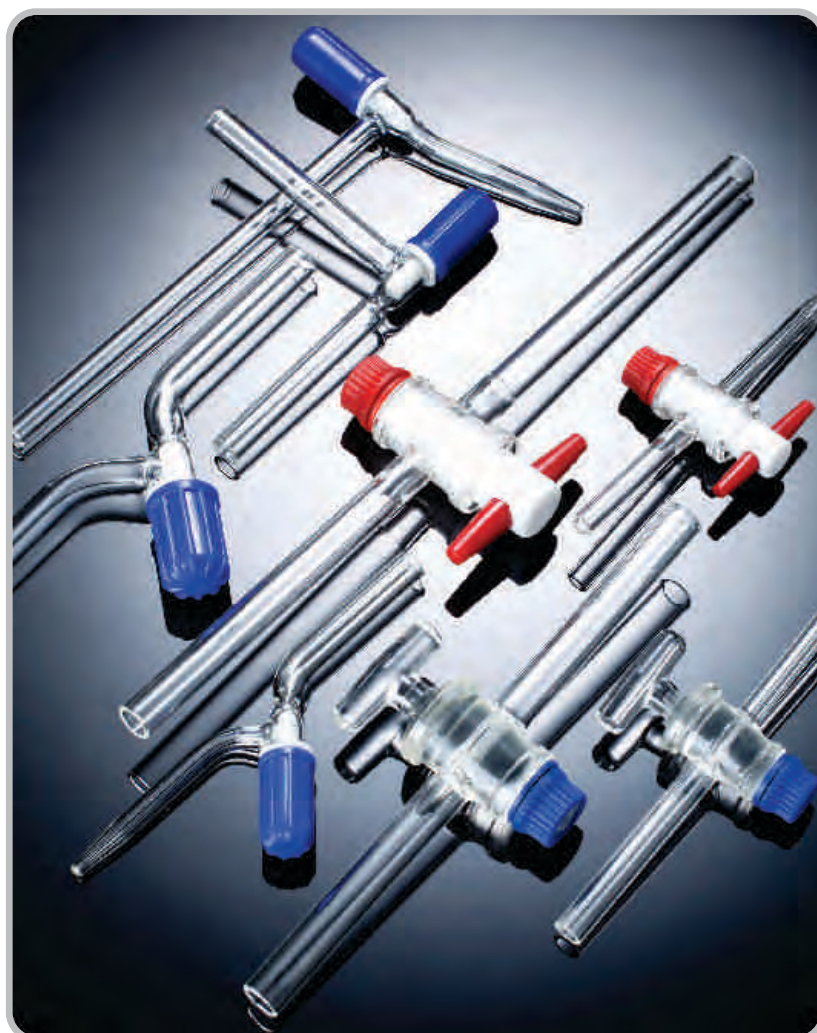
**Step 6.**  
When the bottle is empty, place the Safe-Handle on a flat surface to disengage. Hold the bottom handle with one hand. Using the other hand, rotate the top in counter-clockwise direction until the lugs are disengaged. Remove the top from the bottom.

| Cat. No.   | Description                                  | Pcs/Pack |
|------------|--|----------|
| 215.202.01 | Safety Jar for European 2.5 Ltr Glass Bottle | 4        |



## Stopcocks

# Stopcocks



Rotaflow  
Stopcock  
Straight

**Rotaflow Stopcock, Straight**

| Cat No.    | Bore Size | Pack Size |
|------------|-----------|-----------|
| 299.202.01 | 0-3       | 10        |
| 299.202.02 | 0-6       | 10        |

**PTFE Key Stopcock, Straight**

| Cat No.    | Size | Bore Size | Pack Size |
|------------|------|-----------|-----------|
| 300.202.01 | 12.5 | 2.5       | 10        |
| 300.202.02 | 14.5 | 2.5       | 10        |
| 300.202.03 | 14.5 | 4.0       | 10        |
| 300.202.04 | 18.8 | 6.0       | 10        |

PTFE Key  
Stopcock  
Straight



# Stopcocks



## Rotaflow stopcock for Burette

| Cat No.    | Bore Size | Pack Size |
|------------|-----------|-----------|
| 302.202.01 | 0-3       | 10        |



## Glass Stopcock, Straight

| Cat No.    | Size | Bore Size | Pack Size |
|------------|------|-----------|-----------|
| 301.202.01 | 12.5 | 2.5       | 10        |
| 301.202.02 | 14.5 | 2.5       | 10        |
| 301.202.03 | 14.5 | 4.0       | 10        |
| 301.202.04 | 18.8 | 6.0       | 10        |

## PTFE key stopcock for Burette

| Cat No.    | Size | Bore Size | Pack Size |
|------------|------|-----------|-----------|
| 303.202.01 | 12.5 | 2.5       | 10        |



## Glass key stopcock for Burette

| Cat No.    | Size | Bore Size | Pack Size |
|------------|------|-----------|-----------|
| 304.202.01 | 12.5 | 2.5       | 10        |





## Stopcocks



Rotaflow  
Stopcock  
90°

### Rotaflow Stopcock for Automatic Burette

| Cat No.    | Bore Size | Pack Size |
|------------|-----------|-----------|
| 306.202.01 | 0-3       | 10        |

### Rotaflow Stopcock 90°

| Cat No.    | Bore Size | Pack Size |
|------------|-----------|-----------|
| 305.202.01 | 0-3       | 10        |
| 305.202.02 | 0-6       | 10        |

Rotaflow  
Stopcock  
Burette



PTFE  
Stopcock  
Burette

### Detachable PTFE Key Stopcock for Burette

| Cat No.     | Pack Size |
|-------------|-----------|
| 306.202.01D | 10        |





## List of Accreditation Bodies Worldwide

| No. | Accreditation Body  | Country                    |
|-----|---|----------------------------|
| 1   | Organismo Argentina de Accreditation (OAA)  | Argentina                  |
| 2   | National Association of Testing Authorities, Australia (NATA)                           | Australia                  |
| 3   | Bundersministerium fur Wirtschaft, Familie und Jugend (BMWA)                            | Austria                    |
| 4   | Belgian Accreditation Structure (BELAC)   | Belgium                    |
| 5   | Coordenacao Geral de Acreditacao General Coordination for Accreditation (CGCRE/INMETRO) | Brazil                     |
| 6   | Standards Council of Canada (SCC)   | Canada                     |
| 7   | Canadian Association for Laboratory Accreditation Inc. (CALA)                           | Canada                     |
| 8   | China National Accreditation Service for Conformity Assessment (CNAS)                   | People's Republic of China |
| 9   | Ente Costarricense de Accreditation (ECA)   | Costa Rica                 |
| 10  | National Accreditation Body of Republica de Cuba (ONARc)                                | Cuba                       |
| 11  | Czech Accreditation Institute (CAI)   | Czech Republic             |
| 12  | Danish Accreditation (DANAK)  | Denmark                    |
| 13  | Egyptian Accreditation Council (EGAC)   | Egypt                      |
| 14  | Finnish Accreditation Service (FINAS)   | Finland                    |
| 15  | Comite Francais d'Accreditation (COFRAC)  | France                     |
| 16  | Deutsche Akkreditierungsstelle GmbH (DAKKS)   | Germany                    |
| 17  | Hellenic Accreditation System S.A. (ESYD)   | Greece                     |
| 18  | Oficina Guatemalteca de Accreditation (OGA)   | Guatemala                  |
| 19  | Hong Kong Accreditation Services (HKAS)   | Hong Kong China            |



## List of Accreditation Bodies Worldwide

| No. | Accreditation Body  | Country            |
|-----|---|--------------------|
| 20  | National Accreditation Board for Testing and calibration Laboratories (NABAL) | India              |
| 21  | National Accreditation Body of Indonesia (KAN)                                | Indonesia          |
| 22  | Irish National Accreditation Board (INAB)                                     | Ireland            |
| 23  | Israel Laboratory Accreditation Authority (ISRAC)                             | Israel             |
| 24  | Sistema Italiano di Accreditamento (ACCREDIA)                                 | Italy              |
| 25  | Consorzio Pubblico per l'Accreditation (COPA)                                 | Italy              |
| 26  | Japan Accreditation Board for Conformity Assessment (JAB)                     | Japan              |
| 27  | International Accreditation Japan (IAJapan)                                   | Japan              |
| 28  | Voluntary EMC Laboratory Accreditation Center INC (VLAC)                      | Japan              |
| 29  | Korea Laboratory Accreditation Scheme (KOLAS)                                 | Republic of Korea  |
| 30  | Department of standards Malaysia (Standards Malaysia)                         | Malaysia           |
| 31  | entidad mexicana de acreditacion a.c. (ema)                                   | Mexico             |
| 32  | Dutch New Zealand Council (RvA)   | The Netherlands    |
| 33  | International Accreditation New Zealand (IANZ)                                | New Zealand        |
| 34  | Norsk Akkreditering (NA)  | Norway             |
| 35  | Pakistan National Accreditation Council (PNAC)                                | Pakistan           |
| 36  | Philippine Accreditation Office (PAO)   | Philippines        |
| 37  | Polish Center for Accreditation (PCA)   | Poland             |
| 38  | Instituto Portugues de Acreditacao (IPAC)                                     | Portugal           |
| 39  | Romanian Accreditation Association (RENAR)                                    | Romania            |
| 40  | Association of Analytical centers "Analitica" (AAC "Analitica")               | Russian Federation |





## List of Accreditation Bodies Worldwide

| No. | Accreditation Body  | Country              |
|-----|---|----------------------|
| 41  | Singapore Accreditation Council (SAC)   | Singapore            |
| 42  | Slovak National Accreditation Service (SNAS)  | Slovakia             |
| 43  | Slovenian Accreditation (SA)  | Slovenia             |
| 44  | South African National Accreditation System (SANAS)   | South Africa         |
| 45  | Entidad Nacional de Acreditación (ENAC)   | Spain                |
| 46  | Sri Lanka Accreditation Board for Conformity Assessment (SLAB)  | Sri Lanka            |
| 47  | Swedish Board for Accreditation and Conformity Assessment (SWEDAC)  | Sweden               |
| 48  | Swiss Accreditation Services (SAS)  | Switzerland          |
| 49  | Taiwan Accreditation Foundation (TAF)   | Chinese taipei       |
| 50  | The Bureau of Laboratory Quality Standards, Department of Medical Science, Ministry of Public Health, Thailand (BLQSDMSc) | Thailand             |
| 51  | National Standardization council of Thailand - Office of the National Accreditation Council (NSC - ONAC)                  | Thailand             |
| 52  | Bureau of Laboratory Accreditation, Department of Science Services, Ministry of Science and Technology (BLA - DSS)        | Thailand             |
| 53  | Tunisian Accreditation Council (TUNAC)  | Tunisia              |
| 54  | Turkish Accreditation Agency (TURKAK)   | Turkey               |
| 55  | Dubai Municipality - Accreditation Department (DAC)   | United Arab Emirates |
| 56  | United Kingdom Accreditation Service (UKAS)   | United Kingdom       |



## List of Accreditation Bodies Worldwide

| No. | Accreditation Body  | Country |
|-----|---|---------|
| 57  | American Association for Laboratory Accreditation (A2LA)                                  | USA     |
| 58  | National Voluntary Laboratory Accreditation Program (NVLAP)                               | USA     |
| 59  | International Accreditation Service, Inc (IAS)  | USA     |
| 60  | ANSI-ASQ National Accreditation Board doing Business as ACLASS                            | USA     |
| 61  | Laboratory Accreditation Bureau (L-A-B)   | USA     |
| 62  | Perry Johnson Laboratory Accreditation, Inc. (PJLA)                                       | USA     |
| 63  | American Society of Crime Laboratory Directors/Laboratory Accreditation Board (ASCLD/LAB) | USA     |
| 64  | Bureau of Accreditation (BoA)   | Vietnam |





# Technical Data: PLASTICWARE

## PHYSICAL PROPERTIES

| Resin | Max use Temp °C | Bittleness Temp °C | Transparency | Sterilization |     |          |             |                |                  | Flexi- bility | Water Absor- ption % |
|-------|-----------------|--------------------|--------------|---------------|-----|----------|-------------|----------------|------------------|---------------|----------------------|
|       |                 |                    |              | Auto- claving | Gas | Dry Heat | Radi- ation | Disin- fection | Specific Gravity |               |                      |
| HDPE  | 120             | -100               | Translucent  | No            | Yes | No       | Yes         | Yes            | 0.95             | Rigid         | 20.01                |
| LDPE  | 80              | -100               | Translucent  | No            | Yes | No       | Yes         | Yes            | 0.92             | Excel         | <0.01                |
| PC    | 135             | -135               | Clear        | Yes+          | Yes | No       | No          | Yes            | 1.20             | Rigid         | 0.35                 |
| PP    | 135             | 0                  | Translucent  | Yes           | Yes | No       | No          | Yes            | 0.90             | Rigid         | <0.02                |
| PS    | 90              | 20                 | Clear        | No            | Yes | No       | Yes         | Some           | 1.05             | Rigid         | 0.05                 |

### Sterilization

- Autoclaving (121°C, 15 psig for 20 minutes) Clean and rinse item with distilled water before autoclaving. Certain chemicals which have no appreciable effect on resins at room temperature may cause deterioration at autoclaving temperatures.
- ALWAYS COMPLETELY DISENGAGE THREADS BEFORE AUTOCLAVING.
- Gas - Ethylene oxide formaldehyde.
- Dry heat - 160°C for 120 minutes.
- Disinfectant - Benzalkonium chloride, formalin, ethanol etc.
- Radiation - gamma irradiated at 2.5 Mard with unstablized plastic. Sterilizing reduces mechanical strength. Do not use PC vessels for vaccum application if they have been Autoclaved.

## CHEMICAL RESISTANCE

| CLASSES OF SUBSTANCES AT ROOM TEMPERATURE | HDPE | LDPE | PC | PP | PS |
|---|------|------|----|----|----|
| ACIDS, DILUTE OR WEAK                     | ●    | ●    | ●  | ●  | ●  |
| ACIDS, STRONG AND CONCENTRATED            | ●    | ●    | ●  | ●  | ●  |
| ALCOHOLS, ALIPHATIC                       | ●    | ●    | ●  | ●  | ●  |
| ALDEHYDES                                 | ●    | ●    | ●  | ●  | ●  |
| BASES                                     | ●    | ●    | ●  | ●  | ●  |
| ESTERS                                    | ●    | ●    | ●  | ●  | ●  |
| HYDROCARBONS, ALIPHATIC                   | ●    | ●    | ●  | ●  | ●  |
| HYDROCARBONS, AROMATIC                    | ●    | ●    | ●  | ●  | ●  |
| HYDROCARBONS, HALOGENATED                 | ●    | ●    | ●  | ●  | ●  |
| KETONES                                   | ●    | ●    | ●  | ●  | ●  |
| OXIDIZING AGENTS, STRONG                  | ●    | ●    | ●  | ●  | ●  |

- 30 days of constant exposure cause no damage. Plastic may even tolerate for years.
- Little or no damage after 30 days of constant exposure to the reagents.
- Some effect after 7 days of constant exposure to the reagent like crazing, cracking, loses of strength or discolouration.
- Not recommended for continuous use. Immediate damage may occur.

## ABBREVIATIONS

|      |                           |      |                                  |
|------|---------------------------|------|----------------------------------|
| PP   | Polypropylene             | PS   | Polystyrene                      |
| PC   | Polycarbonate             | ABS  | Acrylo Nitrile Butadiene Styrene |
| HDPE | High Density Polyethylene | PTFE | Poly Tetra Flouro Ethylene       |
| LDPE | Low Density Polyethylene  | PMMA | Poly Methyl Methacrylate         |
|      |                           | TPX  | Poly Methyl Pentene              |





## Technical Data: METALWARE

### MILD STEEL

Each of these standard samples has been analyzed by Chemists in United Kingdom and other countries representing the following interests associated with the Iron and Steel Industries.

The standards have been prepared under rigorous laboratory conditions, and are issued by the organizers under the auspices of the above body of co-workers.

| Description             | Special Features   | ANALYSIS   |         |         |            |           |         |        |          |        |        |       |
|-------------------------|--|------------|---------|---------|------------|-----------|---------|--------|----------|--------|--------|-------|
|                         |  | Combined C | Silicon | Sulphur | Phosphorus | Manganese | Arsenic | Nickle | Chromium | Copper | Oxygen | Iron  |
| Ordinary Carbon Steels* | Complete Analysis and pure iron std.                       | %          | %       | %       | %          | %         | %       | %      | %        | %      | %      | %     |
| "A <sup>2</sup> "       | for K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> v.s. ... | 0.037      | 0.034   | 0.020   | 0.008      | 0.043     | 0.031   | 0.059  | 0.013    | 0.067  | 0.04   | 99.64 |
| "C"                     | C Standard only  | 0.091      | -----   | 0.02a   | 0.02a      | 0.50a     | -----   | -----  | -----    | -----  | -----  | ----- |
| "E"                     | C and Mn Standard  | 0.114      | -----   | 0.02a   | 0.02a      | 0.492     | -----   | -----  | -----    | -----  | -----  | ----- |
| "N <sup>1</sup> "       | Complete Analysis ...                                      | 0.153      | 0.176   | 0.050   | 0.036      | 0.527     | 0.03    | 0.26   | -----    | 0.04   | -----  | ----- |
| "P"                     | High S and P Standard                                      | 0.205      | 0.06a   | 0.073   | 0.105      | 0.706     | 0.03a   | -----  | -----    | -----  | -----  | ----- |
| "M"                     | C and Si standard ...                                      | 0.228      | 0.057   | 0.05a   | 0.03a      | 0.6a      | 0.03a   | -----  | -----    | -----  | -----  | ----- |
| "O <sup>1</sup> "       | Complete Analysis ...                                      | 0.333      | 0.162   | 0.032   | 0.031      | 0.617     | 0.024   | 0.162  | 0.017a   | 0.037a | -----  | ----- |
| "H"                     | C, S and P Standard  | 0.428      | 0.15a   | 0.047   | 0.035      | 0.76a     | -----   | -----  | -----    | -----  | -----  | ----- |
| "I"                     | C and Mn Standard  | 0.521      | 0.15a   | 0.04a   | 0.02a      | 0.726     | -----   | -----  | -----    | -----  | -----  | ----- |
| "R"                     | C, S and Mn Standard                                       | 0.786      | 0.22a   | 0.053   | 0.06a      | 0.914     | 0.03a   | -----  | -----    | 0.02a  | -----  | ----- |
| "S <sup>1</sup> "       | C and P Standard   | 0.921      | 0.07a   | 0.04a   | 0.051      | 0.6a      | -----   | -----  | -----    | -----  | -----  | ----- |
| "U"                     | C, Mn and Ni Standard                                      | 1.203      | 0.17a   | 0.04a   | 0.05a      | 0.472     | -----   | 0.608  | trace    | 0.05a  | -----  | ----- |
| Nickel Steels           |  |            |         |         |            |           |         |        |          |        |        |       |
| "T"                     | Ni Standard only ...                                       | 0.3a       | -----   | -----   | -----      | -----     | -----   | 3.367  | -----    | -----  | -----  | ----- |
| "O"                     | Ni, C and Mn Standard                                      | 0.325      | -----   | -----   | -----      | 0.590     | -----   | 3.985  | -----    | -----  | -----  | ----- |
| Alloy Steels            |  |            |         |         |            |           |         |        |          |        |        |       |
| "V"                     | Cr-V Steel, Complete Analysis ...                          | 0.548      | 0.161   | 0.063   | 0.024      | 0.542     | 0.016a  | -----  | 0.861    | 0.273  | -----  | ----- |
| "W"                     | Cr-V-W-Co Steel, Complete Analysis (DIFF)                  | 0.695      | 0.187   | 0.075   | 0.028      | 0.101     | -----   | 0.44   | 3.01     | 0.791  | 4.67   | 16.21 |
| Cast Iron               |  |            |         |         |            |           |         |        |          |        |        |       |
| Hematite "A"            | Complete Analysis  | 0.734      | 1.989   | 0.047   | 0.049      | 0.688     | 0.042   | -----  | 0.052    | 3.121  | 2.387  | ----- |
| Hematite "B"            | Low Phosphorus - Titaniferous ...                          | 0.039      | 2.2a    | 0.031   | 0.026      | 0.6a      | 0.031   | -----  | 0.108    | 3.06b  | 2.67b  | ----- |
| Basic "D"               | P Standard only ...  | 3.0a       | -----   | -----   | -----      | 1.19      | 0.8a    | -----  | -----    | 3.0a   | -----  | ----- |
| Slag                    |  |            |         |         |            |           |         |        |          |        |        |       |
| Basic Slag "A" à Ore    | P <sub>2</sub> O <sub>5</sub> and part Complete Analysis   | -----      | -----   | -----   | 12.92      | 16.15     | 44.73   | 6.85   | 8.93     | 2.53   | 3.91a  | 0.45a |
| Iron Ore "A" à          | Complete Analysis ...                                      | 58.20      | 0.056   | 2.05    | 1.22       | 0.33      | 1.83    | 0.116  | 8.13     | 0.063  | 1.56   | 1.41  |
| Mang. Ore "A"           | Mn, O, SiO <sub>2</sub> , P, Fe ...                        | 1.3        | 0.222   | 51.3    | 14.3       | -----     | -----   | -----  | 6.49     | -----  | -----  | ----- |
| Non-Ferrus              |  | Pb.        | Sb.     | Sn.     | Cu.        | Fe.       | Bi.     | As.    | Zn.      | -----  | -----  | ----- |
| White Met. "A"          | Complete Analysis ...                                      | 82.6       | 12.04   | 4.64    | 0.33       | 0.06      | 0.03    | 0.06   | 0.08     | -----  | -----  | ----- |

(a) Approx — not a standardized figure, (b) Standardized at Organizing Headquarters only.

\* In the preparation of the ordinary carbon steels special attention has been given to making them suitable as standard for the determination of carbon by colour.

### STAINLESS STEEL

Grade 316 is the standard molybdenum-bearing grade, second in importance to 304 amongst the austenitic stainless steels. The molybdenum gives 316 better overall corrosion resistant properties than Grade 304, particularly higher resistance to pitting and crevice corrosion in chloride environments. It has excellent forming and welding characteristics. It is readily brake or roll formed into a variety of parts for applications in the industrial, architectural, and transportation fields. Grade 316 also has outstanding welding characteristics. Post-weld annealing is not required when welding thin sections.

Grade 316L, the low carbon version of 316 and is immune from sensitisation (grain boundary carbide precipitation). Thus it is extensively used in heavy gauge welded components (over about 6mm). Grade 316H, with its higher carbon content has application at elevated temperatures, as does stabilised grade 316Ti.

The austenitic structure also gives these grades excellent toughness, even down to cryogenic temperatures.

Key Properties

These properties are specified for flat rolled product (plate, sheet and coil) in ASTM A240/A240M. Similar but not necessarily identical properties are specified for other products such as pipe and bar in their respective specifications.

Table 1. Composition ranges for 316 grade of stainless steels.

| Grade |     | C    | Mn   | Si   | P     | S    | Cr   | Mo   | Ni   | N    |
|-------|-----|------|------|------|-------|------|------|------|------|------|
| 316   | Min | -    | -    | -    | 0     | -    | 16.0 | 2.00 | 10.0 | -    |
|       | Max | 0.08 | 2.0  | 0.75 | 0.045 | 0.03 | 18.0 | 3.00 | 14.0 | 0.10 |
| 316L  | Min | -    | -    | -    | -     | -    | 16.0 | 2.00 | 10.0 | -    |
|       | Max | 0.03 | 2.0  | 0.75 | 0.045 | 0.03 | 18.0 | 3.00 | 14.0 | 0.10 |
| 316H  | Min | 0.04 | 0.04 | 0    | -     | -    | 16.0 | 2.00 | 10.0 | -    |
|       | Max | 0.10 | 0.10 | 0.75 | 0.045 | 0.03 | 18.0 | 3.00 | 14.0 | -    |

| TYPICAL CHEMICAL PROPERTIES OF STAINLESS STEEL     |        |           |            |        |         |              |             |
|--|--------|-----------|------------|--------|---------|--------------|-------------|
| Chemical Composition (Max. unless otherwise noted) |        |           |            |        |         |              |             |
|  | Carbon | Manganese | Phosphorus | Sulfur | Silicon | Chromium     | Nickel      |
| 304 (Austenitic)                                   | 0.08   | 2.00      | 0.045      | 0.03   | 1.00    | 18.00 -20.00 | 8.00 -10.50 |





## ALUMINIUM

**Weight:** With a density of 2.7 g/cm<sup>3</sup>, Aluminium is approximately one third as dense as steel.

**Strength:** Aluminium alloys commonly have tensile strengths of between 70 and 700 Mpa. The range for alloys used in extrusion is 150-300 Mpa.

Unlike most steel grades, aluminium does not become brittle at low temperatures. Instead, its strength increases. At high temperatures, aluminium's strength decreases. At temperatures continuously above 100°C, strength is affected to the extent that the weakening must be taken into account.

## CAST IRON

Cast iron is made by remelting pig iron, often along with substantial quantities of scrap iron and scrap steel, and taking various steps to remove undesirable contaminants such as phosphorus and sulfur. Depending on the application, carbon and silicon content are reduced to the desired levels, which may be anywhere from 2% to 3.5% and 1% to 3% respectively. Other elements are then added to the melt before the final form is produced by casting.

Comparative qualities of cast irons

| Name                                | Nominal composition [% by weight]      | Form and condition     | Yield strength [ksi (0.2% offset)] | Tensile strength [ksi] | Elongation [% (in 2 inches)] | Hardness [Brinell scale] |
|-------------------------------------|--|------------------------|------------------------------------|------------------------|------------------------------|--------------------------|
| Cast grey iron (ASTM A48)           | C 3.4, Si 1.8, Mn 0.5                  | Cast                   | -----                              | 25                     | 0.5                          | 180                      |
| White                               | C 3.4, Si 0.7, Mn 0.6                  | Cast (as cast)         | -----                              | 25                     | 0                            | 450                      |
| Malleable iron (ASTM A47)           | C 2.5, Si 1.0, Mn 0.55                 | Cast (annealed)        | 33                                 | 52                     | 12                           | 130                      |
| Ductile or nodular iron             | C 3.4, P 0.1, Mn 0.4, Ni 1.0, Mg 0.06  | Cast                   | 53                                 | 70                     | 18                           | 170                      |
| Ductile or nodular iron (ASTM A339) | -----                                  | Cast (quench tempered) | 108                                | 135                    | 5                            | 310                      |
| Ni-hard type 2                      | C 2.7, Si 0.6, Mn 0.5, Ni 4.5, Cr 2.0  | Sand-cast              | -----                              | 55                     |                              | 550                      |
| Ni-resist type 2                    | C 3.0, Si 2.0, Mn 1.0, Ni 20.0, Cr 2.5 | Cast                   | -----                              | 27                     | 2                            | 140                      |

## BRASS

Brass is any alloy of copper and zinc; the proportions of zinc and copper can be varied to create a range of brasses, each of which has unique properties. In comparison bronze is principally an alloy of copper and tin. Despite this distinction, some type of brasses are called bronzes. Brass is a substitutional alloy. It is mainly used for making laboratory metalware like retort stands, retort clamps etc.

**Properties:** Brass has higher malleability than copper or zinc. The relatively low melting point (900-940°C depending on composition) of brass and its flow characteristics make it a relatively easy material to cast. By varying the proportions of copper and zinc, the properties of the brass can be changed, allowing hard and soft brasses.

Today almost 90% of all brass alloys are recycled, Brass scrap is collected and transported to the foundry where it is melted and recast into billets. Billets are later heated up and extruded into the right form and size.

**Brass Types:** Common brass, or rivet brass, is 37% zinc brass, cheap and standard for cold working.





# Technical Data: RUBBER

## SILICON RUBBER TUBING

Suitable for Laboratory, Pharmaceutical and Industrial use. It has specific advantages over other types such as latex, usual synthetic rubber and plastic tubing.

1. Silicon Rubber Tubing is suitable for use over a temperature range of  $-50^{\circ}\text{C}$  to  $250^{\circ}\text{C}$  hence useful for transfer of hot liquids.
2. It can be sterilized by steam (autoclave) or by hot air. This finds applications for use under aseptic conditions.
3. The tubing is odourless. It does not impart any smell or taste to liquid passing through it. It is suitable for transfer of pharmaceutical liquids, beverages and other food preparations.
4. The Silicon Rubber used for making tubing is of superior grade. Tubing is not irritant to skin.
5. The tubing is highly elastic and hence suitable for use with peristaltic pump.
6. Silicon Rubber is attacked by strong acids, strong alkalies, oils, bromine, carbon tetrachloride and toluene. The tubing is not recommended for use with these materials.

Silicon Rubber tubing is Transparent to Translucent.

## NATURAL RUBBER TUBING

made from Rubber Trees

Shore hardness : 45

Density : 1.13

Temperature range :  $-30^{\circ}\text{C}$  to  $110^{\circ}\text{C}$  light

It is resistant to dilute acid, alkalies, ammonia etc. Rubber Tubing light, flexible. For transferring gasses.





## Technical Data

### LOW EXPANSION BOROSILICATE GLASS

From the 16th Century to, today, chemical research teams have used glass containers for a very basic reason the glass containers is transparent, almost invisible. And so the contents and the reaction are clearly visible, But because chemists must heat, cool and mix chemical substances, ordinary glass is not always adequate for laboratory works.

Laboratory works requires apparatus made in a glass - which can readily be moulded into any desired shape or form, which offers maximum inertness when in contact with the widest range of chemical substances, which can withstand thermal shock with fracture and high temperature work without deforming, and which will be resilient enough to survive the everyday knocks to which it will be subjected in normal laboratory handling, washing and sterilizing processes.

#### Chemical Composition

Glassco Glassware is a low alkali borosilicate composition. Its typical chemical composition is given under. It is virtually free of magnesia-lime-Zinc group and contains only traces of heavy metals.

#### Thermal Properties

As the Coefficient of thermal expansion of Borosilicate glass is low, the thermal stresses under a given

temperature gradient are consequently low and the glass can withstand higher temperature gradients and also sudden temperature changes/thermal shocks. Minute scratching of glass surface can however reduce its thermal resistance.

In general the 'Strain Point' should be regarded as the maximum safe operating temperature of Glassco glassware. When heated above 500°C the glass may acquire permanent stresses on cooling. All Glassco labware is annealed in modern ovens under strictly controlled conditions to ensure minimal residual stress in the products.

#### Chemical Durability

Glassco Glassware in highly resistance to water, neutral and acid solutions, concentrated acids and their mixtures as well as to chloride, bromine, iodine, and organic matters. Even during extended period of reaction and at temperatures above 100°C, its chemical resistance exceeds that of most metals and other materials. It can withstand repeated dry and wet sterilisation without surface deterioration and subsequent contamination. Resistance to attack of various chemicals is shown under. Only hydrofluoric acid, very hot phosphoric acid and alkaline solutions increasingly attack the glass surface with rising concentration and temperature.

#### Fabrication with Borosilicate Glass

Due to low expansion of glass and easy workability, this glass can be shaped, formed, joined into complicated apparatus. It can be done even by an analyst in his own laboratory. He can keep on changing till he gets what he needs. In case where annealing in a controlled oven is difficult he can do so by flame annealing which is also great advantage.

#### Optical Properties

Laboratory glassware made from Borosilicate Glass shows no noticeable absorption in the visible region of the spectrum. It appear consequently clear and colourless.

When treated with proper care Glassco laboratory apparatus will give a long and satisfactory service. The following prepared notes are to assist users in obtaining the maximum life and performance from their apparatus. Our sales department will be happy to advise on any aspect concerning the safe use of our products.

| PERCENTAGE BY WEIGHT          |     |
|-------------------------------|-----|
| SiO <sub>2</sub>              | 81% |
| B <sub>2</sub> O <sub>3</sub> | 13% |
| Na <sub>2</sub> O             | 4%  |

|  |                          |
|--|--------------------------|
| Coefficient of Linear Expansion                    | 32.5x10 <sup>-7</sup> °C |
| Strains Point                                      | 515°C                    |
| Annealing Point                                    | 565°C                    |
| Softening Point                                    | 820°C                    |
| Specific Heat                                      | 0.2                      |
| Thermal Conductivity (Cal/cm <sup>3</sup> /°C/Sec) | 0.0027                   |

| CONTACT CHEMICAL  | DURATION IN HOUR | LOSS IN WT. MG/M <sup>2</sup> |
|---|------------------|-------------------------------|
| Water distilled at 100°C                                    | 6                | 10                            |
| Water Vapour Steam at 121°C                                 | 1                | 75                            |
| Acid HCl  | 6                | 100                           |
| 80% H <sub>2</sub> SO <sub>4</sub> at 130°C                 | 12               | 140                           |
| Alkali- 1N soln. of Na <sub>2</sub> CO <sub>3</sub> boiling | 6                | 4000                          |
| Infusion Fluids Isotonic                                    |                  |                               |
| NaCl (0.85%) 121°C  | 2.5              | 70                            |
| Glucose (5%) 121°C  | 2.5              | 50                            |





### Care & Maintenance

#### HEATING AND COOLING

**Glass may suffer damage in three ways :**

- It may break under thermal stress in the steady state, that is when there is established constant thermal gradient through the glass.
- It may break under the transient stress of a 'thermal shock', that is sudden heating or cooling.
- It may, if heated beyond certain temperature, acquire a permanent stress on cooling which could cause subsequent failure.

**The following precautionary measures will assist in avoiding failures during heating and cooling procedures.**

01. Never leave vessel unattended when evaporation work is being carried out. The vessel may crack or explode as dryness condition is approached if the heat source is not adjusted correctly. Lower the temperature gradually as the liquid level drops.
02. Always use caution when removing glassware from a heat source and avoid placing on a cold or damp surface. Although the ware can withstand extreme temperatures, sudden temperature changes may cause the vessel to break.
03. Always cool vessels slowly to prevent thermal breakage.
04. Never apply heat to badly scratched or etched vessel as the thermal strength will have been greatly reduced.
05. Never apply point source heating to a vessel as this will greatly increase the chance of breakage.
06. Always diffuse the heat source by using a metal gauze or air/water bath. Alternatively ensure even heating of the vessel by slow movement of the vessel in relation to the heat source.
07. Adjust Bunsen burner to get a large soft flame. It will heat slowly but also more uniformly. Uniform heat is critical factor for some chemical reactions.
08. Ensure that the flame contacts the vessel below the liquid level. Heating above that level will invite breakage of the vessels.
09. Always use anti-bumping devices in the vessel, such as powered pumice or glass wool rapid heating of the vessel and contents is required.
10. Never use material with sharp edges such as broken porcelain as an anti-bumping device. This will cause internal abrasions and reduce the mechanical and thermal strength of the vessel.
11. Thick walled glassware should not be subjected to direct flame or other localised heat source. Vessels of this type are best heated with the use of an electric immersion heater.
12. Avoid heating glassware over electric heaters with open elements. Uneven heat of this type can include localised stress and increase the chance of breakage.
13. Remember that the hot plate will retain heat long after the appliance has been switched off.
14. Always ensure that the surface of the hot plate is larger in area than the base of the vessel being heated. An under-sized plate of the job in hand will invite uneven heating and promote breakage of glassware.
15. Always ensure that manufacturer's instructions are followed when electrical heat sources.

#### Mixing and Stirring

01. Always use a policeman's or similar device on stirring rods to prevent scratching the inside of a vessel.
02. When using a glass vessel with a magnetic stirrer always use a covered follower to prevent abrading the inside of the vessel.
03. When using glass or metal mechanical stirrer in a glass vessel always predetermine the height of the stirrer before use to ensure there is no contact between the stirrer blade and the bottom or sides of the vessel.
04. Never mix sulphuric acid and water inside a glass measuring cylinder. The heat of reaction can break the base of the cylinder.

#### Vacuum and Pressure

01. Never use a glassware beyond the recommended safe limit.
02. Always use a safety screen when working with glassware subjected to pressure of vacuum.
03. Never subject glassware to sudden pressure changes. Always apply and release positive and negative pressures gradually.





## Care & Maintenance

### Joining and Separating glass apparatus

01. When storing glass stopcocks and joints, insert a thin strip of paper between joint surfaces to prevent sticking.
02. Never store stopcocks for long periods with lubricant still on the ground surfaces.
03. Glass stopcocks on Burettes and Separation Funnels should be lubricated frequently to prevent sticking.
04. If a ground joint sticks, separation can generally be achieved by carefully recking the cone in the socket, or gently tapping of the socket flange on a wooden surface, or by heating the socket and not the cone in a localised flame. The use of penetrating oil will often prove useful in aiding separation.
05. In using lubricants it is advisable to apply light coat of grease completely around the upper part of the joint. Use only a small amount and avoid greasing that part of the joint which contacts the inner part of apparatus.
06. Three type of lubricants are commonly use on standard taper joints
  - (A) Hydrocarbon grease is the most widely used. It can be easily remove by most laboratory solvents, including acetone.
  - (B) Because hydrocarbon grease is so easily removable, silicon grease is often preferred for higher temperature or high vacuum applications. It can be removed readily with chloroform.
  - (C) For long term reflux or extraction reactions, a water soluble, organic and insoluble grease, such as glycerin, is suitable. Water will clean glycerin. There are other type of greases which can be used specifically when certain reagents are used in the Burettes or Separating Funnels.
07. The use of water, oil or glycerol is recommended on both tubing and rubber bung when inserting glass tubing into a bung. Always wear heavy protective gloves or similar protection when carrying out this operation.
08. Always fire polish rough ends of glass tubing before attempting to insert into flexible tubing. The lubricants recommended above may also prove useful.
09. Never attempt to pull a thermometer out of a rubber bung. Always cut the bung away.

### PERSONAL SAFETY

01. Use tongs to asbestos gloves to remove all glassware from heat. Hot glass can cause severs burns.
02. Protective gloves, safety shoes, aprons, and goggles should be worn as safety chemical accidents, spilling or splattering.
03. Always flush the outside of acid bottle with water before opening. Do not put the stopper on the counter top where someone else may come in contact with acid residue.
04. Special care is needed when dealing with mercury. Even a small amount of mercury in the bottom of a drawer can poison the room atmosphere. Mercury toxicity is cumulative and the element's ability to amalgamate with a number of metals is well known. After an accident involving mercury, the area should be cleaned carefully until there are no globules remaining. All mercury containers should be kept well-stoppered.
05. Never drink from a beaker. A beaker left specifically for drinking is a menace to the laboratory. Do not taste chemicals for identification. Smell chemicals only when necessary and by waiting a small amount of vapour towards the nose.
06. Avoid pipeting by mouth, particularly when using concentrated acids, alkalis or potentially biohazardous materials. Use mechanical means such as a rubber bulb or an automatic dispenser.
07. Never fill receptacle with material other than that called for by the label. Label all containers before filling. Throw away contents of unlabelled containers.
08. To avoid breakage when clamping glassware, do not permit glass-to-metal contact and do not use excessive force to tighten the clamps.
09. Do not look down into a test tube being heated or containing chemicals and do not point its open end at another person. A reaction might cause the contents to be ejected, resulting in injury.
10. Spattering from acids, caustic materials and strong oxidizing solutions on the skin or clothing should be washed off immediately with large quantities of water.





### Care & Maintenance

11. When working with chlorine, hydrogen sulphide, carbon monoxide, hydrogen cyanide and other very toxic substances, always use a protective mask or perform these experiments under a fume hood on a well ventilated area.
12. In working with volatile materials, remember that heat causes expansion and confinement of expansion results in explosion. Remember also that danger exists even though external heat is not applied.
13. Perchloric acid is especially dangerous because it explodes on contact with organic materials. Do not use perchloric acid around wooden benches or tables. Keep perchloric acid, wear protective clothing.
14. When using hot plates and other electrical equipments, ensure the wire and plugs are in good condition. Never handle electrical connection with damp hand.

#### CLEANING

Successful experimental results can only be achieved by using a clean apparatus. In all instances laboratory glassware must be physically clean, in nearly all cases it must be chemically clean and in specific cases it must be bacteriologically clean or sterile. There must be no trace of grease and the safest criteria of cleanliness is the uniform wetting of the glass surface by distilled water-this being of the utmost importance for glassware used for volumetric methods. Any prevention of uniform wetting of the surface will introduce errors such as distortion of the meniscus and accuracy of volume.



#### GENERAL CLEANING

01. Cleaning of glassware which has contained hazardous materials must be solely undertaken by experienced personal.
02. Most new glassware is slightly alkaline in reaction. For precision chemical tests, new glassware should be soaked several hours in acid water (1% solution hydrochloric acid or nitric acid) before washing.
03. Glassware which is contaminated with blood clots, culture media, etc. must be sterilized before cleaning.
04. If glassware become induly clouded or dirty or contains coagulated organic matter, it must be cleaned with chromic acid cleaning solution. The dichromates should be handle with extreme care because it is a powerful corrosive
05. Wash glassware as quickly as possible after use but if delays are unavoidable, the articles should be allowed to soak in water.
06. Grease is removed by weak sodium carbonate solution or acetone or fat solvents. Never use strong alkalis.
07. Hot water with recommended detergents should be used and if glass is exceptionally dirty a cleaning power with a mild abrasive action can be applied, provided the surface is not scratched.
08. During washing all parts of the article should be thoroughly scrubbed with a brush selected for the shape and size of the glassware. Brushes should always be in good condition to avoid any abrasion of glassware.
09. When chromic acid solution is used, the item may be rinsed with the cleaning solution or it may be filled and allowed to stand. The amount of time should depend on amount of contamination on the glassware.
10. Special type of precipitate material may required removal with nitric acid, aqua regia or fuming sulphuric acid. These are very corrosive substances and should be used only when required.





## Care & Maintenance

11. It is imperative that all soap detergents and other cleaning fluids be removed from glassware before use. This is especially important with the detergents, slight traces of which will interfere with serologic and culture reactions. After cleaning, thoroughly rinse with tap water ensuring that containers are partly filled with water, shaken and emptied several times. Finally rinse with deionised or distilled water.
12. Drying can be undertaken either in baskets or on pages in air or at a temperature not exceeding 120°C.
13. Always protect clean glassware from dust by use of temporary closures or by placing in a dust free cabinet. For cleaning specific type of glassware, please refer the following pages.

### Cleaning Specific Types of Glassware Pipettes

Place pipettes tips down, in a cylinder or tall jar of water immediately after use. Do not drop them into the jar, since this may break or chip the tips and render the pipettes useless for accurate measurements. A pad of cotton or glass wool at the bottom of the jar will help to prevent breaking of the tips. Be certain that the water level is high enough to immerse the greater portion or all of each pipette. At a convenient time, the pipettes may then be drained and placed in a cylinder or jar of dissolved detergent or, if exceptionally dirty, in a jar of chromic acid cleaning solution. After soaking for several hours, or overnight, drain the pipettes and run tap water over and through them until all traces of dirt are removed. Soak the pipettes in distilled water for at least one hour. Remove from the distilled water, dry the outside with a cloth, shake out the water and dry.

### Burettes (with glass stopcock)

01. Remove the stopcock key and wash the burette with detergent and water.
02. Rinse with tap water until all the dirt is removed. Then rinse with distilled water and dry.
03. Wash the stopcock key separately. Before the stopcock key is replaced in the burette's stopcock key are not interchangeable.
04. Always cover burettes when not in use.

### Culture Tubes

01. Culture tubes which have been used previously must be sterilized before cleaning. The best general method for sterilising culture tubes is by autoclaving for 30 minutes at 121°C (15lb. pressure). Media which solidify on cooling should be poured out while the tubes are emptied, brush with detergent and water, rinse thoroughly with tap water, rinse with distilled water, place in a basket and dry.
02. If tubes are to be filled with a medium which is sterilized by autoclaving, do not plug until the medium is added. Both medium & tubes are thus sterilized with one autoclave.
03. If the tubes are to be filled with a sterile medium or if they are to be sterilized by the fractional method then sterilize the tubes in the autoclave or dry air sterilizer before adding the medium.

### Serological Tube

01. Serological Tubes should be chemically clean but need not be sterile. However, specimens of blood which are to be kept for some time at room temperature should be collected in a sterile container. It may be expedient to sterilize all tubes as routine.
02. To clean and sterilize tubes containing blood, discard the clots in a waste container and place the tubes in a large basket. Put the basket, with others, in a large bucket or boiler. Cover with water, add a fair quantity of soap or detergent and boil for 30 minutes. Rinse the tubes and clean with brush, rinse and dry with the usual precautions.
03. It is imperative when washing serological glassware that all acid, alkali and detergent be completely removed. Both acid and alkali in small amounts destroy complement and in large amounts produce hemolysis. Detergents interfere with serologic reactions.
04. Serological tubes and glassware should be kept separate from all other glassware and used for nothing except serologic procedures.





## Index

**A**

|                                |               |  |               |
|--------------------------------|---------------|--|---------------|
| <b>ADAPTERS</b>                | 6-17          |  |               |
| Air Leak Tube                  | 17            |  |               |
| Bushing                        | 6             |  |               |
| Claisen Head                   | 13            |  |               |
| Cone Adapter                   | 14, 15, 17    |  |               |
| Drying Tube                    | 16            |  |               |
| Expansion                      | 7             |  |               |
| Multiple                       | 8             |  |               |
| Receiver                       | 9, 10, 11     |  |               |
| Recovery Bend                  | 12            |  |               |
| Reduction                      | 7             |  |               |
| Screw Thread                   | 17            |  |               |
| Socket Adapter                 | 15, 16        |  |               |
| Splash Head                    | 13, 14        |  |               |
| Steam Distillation             | 14            |  |               |
| Still Head                     | 12            |  |               |
| Swan Neck                      | 9             |  |               |
| Thermometer Pocket             | 17            |  |               |
| All Glass Filter Holder 47mm   | 130, 132, 133 |  |               |
| All Glass Filter Holder 90mm   | 134           |  |               |
| Air Condenser                  | 90            |  |               |
| Allihn Condenser               | 93, 95        |  |               |
| Analytical Funnel, PP          | 127           |  |               |
| Aspirator Bottle, PP           | 142           |  |               |
| Automatic Burette, Clear Glass | 48, 49        |  |               |
|                                |               | Mac-cartney, Glass                       | 138           |
|                                |               | Narrow Mouth, PP                         | 143           |
|                                |               | Pycnometers, Glass                       | 136           |
|                                |               | Reagent, With Screw Cap, Glass           | 137           |
|                                |               | Reagent, With Screw Cap, PP              | 141           |
|                                |               | Reagent, With Stopper, Glass             | 137           |
|                                |               | Square Bottle, PP                        | 143           |
|                                |               | Vacuum, PP                               | 143           |
|                                |               | Weighing, Glass                          | 136           |
|                                |               | Bottle Top Dispenser                     | 75-78         |
|                                |               | Box, Micro Tip                           | 74            |
|                                |               | Brush, Beaker                            | 101           |
|                                |               | Brush, Bottle                            | 140           |
|                                |               | Brush, Burette                           | 46            |
|                                |               | Brush, Cylinder                          | 71            |
|                                |               | Brush, Flask                             | 106           |
|                                |               | Brush, Test Tube, Nylon                  | 33            |
|                                |               | Buchner Funnel                           | 128-129       |
|                                |               | Burette Clamp                            | 47            |
|                                |               | Bushing Adapter                          | 6             |
|                                |               | <b>BURETTES</b>                          | 42-46, 48, 49 |
|                                |               | Automatic, Clear Glass, ASTM             | 49            |
|                                |               | Automatic, Clear Glass, DIN              | 48, 49        |
|                                |               | Burette, Clear Glass, Economy Model, DIN | 45            |
|                                |               | Burette, Clear Glass,                    |               |
|                                |               | with Glass Stopcock, DIN                 | 42, 43, 45    |
|                                |               | Burette, Clear Glass,                    |               |
|                                |               | with Needle Valve Stopcock, DIN          | 43, 45        |
|                                |               | Burette, Clear Glass,                    |               |
|                                |               | with PTFE Detachable Stopcock, DIN       | 44, 45        |
|                                |               | Burette, Clear Glass,                    |               |
|                                |               | with PTFE Key Stopcock, ASTM             | 46            |
|                                |               | Burette, Clear Glass,                    |               |
|                                |               | with PTFE Key Stopcock, DIN              | 44, 45        |
|                                |               | Burette, TPX                             | 45            |
|                                |               | Burner Bunsen                            | 117           |
|                                |               | Burner Meaker                            | 117           |

**B**

|                                    |         |  |  |
|------------------------------------|---------|--|--|
| Basket, Test Tube                  | 35      |  |  |
| <b>BEAKERS</b>                     | 100-102 |  |  |
| Low Form, Clear Glass, ASTM        | 101     |  |  |
| Low Form, Clear Glass, DIN         | 100     |  |  |
| Low Form, Heavy, Clear Glass, ASTM | 101     |  |  |
| PP, Euro Design                    | 102     |  |  |
| Tall Form, Clear Glass, DIN        | 100     |  |  |
| Beaker Tong, SS                    | 100     |  |  |
| Boss Head                          | 116     |  |  |

**BOTTLES**

|                       |          |                                 |          |
|-----------------------|----------|---------------------------------|----------|
| Aspirator, PP         | 142      |                                 |          |
| Bod, Glass            | 139      |                                 |          |
| Carboy, PP            | 142, 143 |                                 |          |
| Dropping, Amber Glass | 138      |                                 |          |
| Dropping, Clear Glass | 138      |                                 |          |
| Dropping, PP          | 141      |                                 |          |
| Gas Wash, Glass       | 140      |                                 |          |
| Gas Wash, PE          | 142      |                                 |          |
|                       |          | Carboy Bottle, PP               | 142, 143 |
|                       |          | Carrier Tray                    | 112      |
|                       |          | Centrifuge Tube, Conical, Glass | 26       |
|                       |          | Centrifuge Tube, Conical, PP    | 28       |
|                       |          | Centrifuge Tube, Round, Glass   | 32       |
|                       |          | Centrifuge Tube, Round, PP      | 28       |
|                       |          | Claisen Head Adapter            | 13       |

**C**



|  |            |   |            |
|--|------------|---|------------|
| CLAMPS   | 47         | Dropping Bottle, PP                             | 141        |
| Burette  | 47         | Dropping Funnel, With Glass Stopcock            | 82, 86, 87 |
| Condenser                                      | 115        | Dropping Funnel, With Needle Valve Stopcock     | 82, 86     |
| Fisher   | 47         | Dropping Funnel, With PTFE Key Stopcock         | 82, 86, 87 |
| Retort   | 114, 115   | Drying Tube                                     | 16         |
| Universal                                      | 114        |   |            |
| Clips, Metal                                   | 4          | <b>E</b>  |            |
| Clips, PP                                      | 4          | Erlenmeyer Flasks                               | 103        |
| Closure Cap                                    | 33         | Evaporating Dish, Porcelain                     | 110        |
| CONDENSERS                                     | 90-95      | Evaporating Flask, Clear Glass                  | 21         |
| Air  | 90         | Expansion Adapter                               | 7          |
| Allihn   | 93, 95     | Extractor                                       | 96         |
| Coil   | 92         | Extraction Apparatus                            | 96         |
| Dimroth  | 94, 95     |   |            |
| Liebig   | 91         | <b>F</b>  |            |
| Cone Adapter                                   | 14, 15, 17 | Fisher Clamp                                    | 47         |
| Cone, Single                                   | 2,3        | FLASKS  |            |
| Conical Flask, Clear Glass, With Glass Stopper | 24         | Conical Flask, With Glass Stopper               | 24         |
| Conical Flask, Jointed, Clear Glass            | 22         | Conical Flask, Jointed, Clear Glass             | 22         |
| Conical Flask, Screw Cap, Clear Glass          | 24         | Conical Flask, Screw Cap, Clear Glass           | 24         |
| Conical Flask, Screw Cap, PP                   | 102        | Conical Flask, Screw Cap, PP                    | 102        |
| Coplin Jar                                     | 122        | Distillation, Clear Glass                       | 23         |
| Cork Rubber, Silica                            | 118        | Erlenmeyer Flasks,                              | 103        |
| Cover Glass                                    | 121        | Evaporating , Clear Glass                       | 21         |
| CRUCIBLE                                       |            | Filter Flask, Clear Glass                       | 23         |
| Filter, Glass                                  | 129        | Flat Bottom, Jointed, Clear Glass               | 19         |
| Holder   | 129        | Flat Bottom                                     | 105        |
| Porcelain                                      | 109        | Iodine, Clear Glass                             | 22         |
| Quartz   | 109        | Kjeldhal, Jointed, Clear Glass                  | 21         |
| Silica   | 109        | Kjeldhal, Plain, Clear Glass                    | 24         |
| Cryo Box                                       | 31         | Pear Shape, Single Neck, Clear Glass            | 21         |
| Cryo Coders, Polystyrene                       | 30         | Pear Shape, Two Neck, Clear Glass               | 21         |
| Cryo Rack, Polycarbonate                       | 31         | Round Bottom, Narrow Neck, Clear Glass          | 104        |
| Cryo Vial, PP                                  | 30         | Round Bottom, Single Neck, Jointed, Clear Glass | 18         |
| Crystallizing Dish, Glass                      | 107        | Round Bottom, Three Neck, Jointed, Clear Glass  | 20         |
| Culture Tube, PP                               | 29         | Round Bottom, Two Neck, Jointed, Clear Glass    | 19         |
| Culture Tube, Flat Bottom, Glass               | 26         | Round Bottom, Wide Neck, Clear Glass            | 104        |
| Culture Tube, Round Bottom, Glass              | 25         | VOLUMETRIC                                      | 59-67      |
| Cylinder Brush                                 | 71         | Amber Glass, With Stopper, ASTM                 | 65, 66     |
| <b>D</b>                                       |            | Amber Glass, With Stopper, DIN                  | 59, 60, 61 |
| Dimroth Condenser                              | 94, 95     | Amber Glass, With Stopper, USP                  | 62         |
| DISHES   |            | Clear Glass, With Stopper, ASTM                 | 63, 64     |
| Crystallizing, Glass                           | 107        | Clear Glass, With Stopper, DIN                  | 59, 60, 61 |
| Evaporating, Porcelain                         | 110        | Clear Glass, With Stopper, USP                  | 62         |
| Petri, Glass                                   | 108        | Snap Cap, Clear Glass, ASTM                     | 67         |
| Petri, Polystyrene                             | 108        | Volumetric Flask, PP                            | 67         |
| Petri, PP                                      | 108        | Flask Brush                                     | 106        |
| Dissecting Set                                 | 119        | Flask Stand                                     | 106        |
| Distillation Flask, Clear Glass                | 23         | Float Rack, PP                                  | 27         |
| Dessicators Glass, PP                          | 111        | Forceps   | 119        |
| Draining Rack                                  | 112        | Funnel Holder                                   | 127        |
| Dropping Bottle, Amber Glass                   | 138        | FUNNELS   |            |
| Dropping Bottle, Clear Glass                   | 138        | Analytical, PP                                  | 127        |
|  |            | Buchner, Glass                                  | 128        |





|                                      |       |   |           |
|--------------------------------------|-------|---|-----------|
| Buchner, Porcelain                   | 129   | Multiple Adapter                          | 8         |
| Buchner, PP                          | 129   | <b>N</b>                                  |           |
| Filter, Glass                        | 126   | Narrow Mouth Bottle, PP                   | 143       |
| Industrial, PP                       | 127   | Nessler Cylinder                          | 72        |
| Long Stem, PP                        | 127   | <b>O</b>                                  |           |
| Powder, Glass                        | 126   | Oak Ridge Centrifuge Tube, PP             | 28        |
| Powder, PP                           | 127   | <b>P</b>                                  |           |
| <b>G</b>                             |       | PCR Tube Rack                             | 27        |
| Gas Wash Bottle, Glass               | 140   | Pear Shape Flask Single Neck, Clear Glass | 21        |
| Gas Wash Bottle, PE                  | 142   | Pear Shape Flask Two Neck, Clear Glass    | 21        |
| GRADUATED PIPETTES                   |       | Penny Head, Glass Stopper                 | 6         |
| Mohr                                 | 54-56 | Pestle & Mortar                           | 110       |
| Serological                          | 53-56 | Petri Dish                                | 108       |
| <b>H</b>                             |       | PIPETTES                                  | 50-56     |
| Hand Grip                            | 106   | Graduated Pipettes,                       | 53-56     |
| Head For Gas Wash Bottle, Glass      | 140   | Micro Pipette, Fixed, Variable            | 73        |
| Hollow Glass Stopper                 | 5     | Multichannel                              | 74        |
| <b>I</b>                             |       | Volumetric Pipettes                       | 51-53     |
| Iodine Flask, Clear Glass            | 22    | Pipette Box                               | 53        |
| Industrial Funnel, PP                | 12    | Pipette Controller                        | 57        |
| <b>J</b>                             |       | Pipette Filler                            | 57        |
| JOINTS                               | 2-4   | Pipette Pumps                             | 57        |
| Clips, Metal                         | 4     | Pipette Stands                            | 58        |
| Clips, PP                            | 4     | Plastic Stopper                           | 5         |
| Cone, Single                         | 2,3   | Powder Funnel, Glass                      | 126       |
| Socket, Double                       | 3     | Powder Funnel, PP                         | 127       |
| Socket, Single                       | 2,3   | Pressure Equalizing Funnels               | 87-88     |
| Spherical Ball                       | 4     | Pycnometers, Glass                        | 136       |
| Spherical Cup                        | 4     | <b>Q</b>                                  |           |
| <b>K</b>                             |       | Quartz Crucible                           | 109       |
| Kjeldhal Flasks Jointed, Clear Glass | 21    | <b>R</b>                                  |           |
| Kjeldhal Flasks Plain, Clear Glass   | 24    | RACKS                                     |           |
| <b>L</b>                             |       | Cryo Box                                  | 31        |
| Laboratory Gloves                    | 121   | Cryo, Polycarbonate                       | 31        |
| Laboratory Jack                      | 117   | Draining                                  | 112       |
| Liebig Condenser                     | 91    | Float, PP                                 | 27        |
| <b>M</b>                             |       | MCT Box, Polycarbonate                    | 28        |
| Mac-cartney Bottle, Glass            | 138   | MCT Twin, PP                              | 27        |
| MCT Box, Polycarbonate               | 28    | Micro Centrifuge Tube                     | 35        |
| MCT Twin Rack, PP                    | 27    | PCR Tube                                  | 27        |
| Meaker Burner                        | 117   | Petri Dish                                | 108       |
| Measuring Cylinders                  | 68-72 | Scintillation Vial, PP                    | 30        |
| Measuring Jugs                       | 102   | Slide                                     | 121       |
| Micro Pipette                        | 73-74 | Reagent Bottle, With Screw Cap, Glass     | 137       |
| Micro Centrifuge Tube Rack           | 35    | Reagent Bottle, With Screw Cap, PP        | 141       |
| Micro Centrifuge Tube, PP            | 27    | Reagent Bottle, With Stopper, Glass       | 137       |
| Micro Tip Box                        | 74    | Retort Rings                              | 113, 114  |
| Microanalysis Filter Holders 25mm    | 131   | Receiver Adapter                          | 9, 10, 11 |
|                                      |       | Recovery Bend Adapter                     | 12        |
|                                      |       | Reduction Adapter                         | 7         |





|   |          |
|---|----------|
| Retort Clamp  | 114, 115 |
| Retort Stand  | 113      |
| Round Bottom Flask, Narrow Neck, Clear Glass          | 104      |
| Round Bottom Flask, Single Neck, Jointed, Clear Glass | 18       |
| Round Bottom Flask, Three Neck, Jointed, Clear Glass  | 20       |
| Round Bottom Flask, Two Neck, Jointed, Clear Glass    | 19       |
| Round Bottom Flask, Wide Neck, Clear Glass            | 104      |
| Rubber Cork   | 118      |
| Rubber Tubing   | 118      |

## S

|  |            |
|--|------------|
| Safety Jar                                 | 144        |
| Scintillation Vial Rack, PP                | 30         |
| Scintillation, PP                          | 30         |
| Screw Thread                               | 17         |
| SEPARATING FUNNELS                         | 80-88      |
| Cylindrical, With Glass Stopcock           | 82, 86, 87 |
| Cylindrical, With Needle Valve Stopcock    | 82, 86     |
| Cylindrical, With PTFE Key Stopcock        | 82, 86, 87 |
| Gilson Funnel, With Glass Stopcock         | 83         |
| Gilson Funnel, With PTFE Key Stopcock      | 83         |
| Iso Shape, With Glass Stopcock, DIN        | 81, 84, 85 |
| Iso Shape, With Needle Valve Stopcock, DIN | 81, 84     |
| Iso Shape, With PTFE Key Stopcock, DIN     | 81, 84, 85 |
| Pear Shape, PP, With PTFE Plug             | 83         |
| Squibb                                     | 80         |
| Separating Funnel, Holder, PP              | 83         |
| Silica Cork                                | 118        |
| Silica Crucible                            | 109        |
| Slide Rack                                 | 121        |
| Slides Microscopic                         | 121        |
| Socket Adapter                             | 15, 16     |
| Socket, Double                             | 3          |
| Socket, Single                             | 2,3        |
| Soft Loop Sterile                          | 122        |
| Spatula                                    | 120        |
| Spherical Ball                             | 4          |
| Spherical Cup                              | 4          |
| Splash Adapter                             | 13, 14     |
| Square Bottle, PP                          | 143        |
| STANDS                                     |            |
| Flask                                      | 106        |
| Pipette                                    | 58         |
| Retort                                     | 113        |
| Test Tube Stand                            | 34         |
| Test Tube, Stand, Wire Pattern             | 35         |
| Tripod                                     | 116        |
| Steam Distillation                         | 14         |
| Stirrer                                    | 122        |
| Still Head Adapter                         | 12         |
| Stopcocks                                  | 145-147    |
| Stoppers                                   | 5-6        |
| Storage Box                                | 122        |
| Storage Vial, PP                           | 29         |
| Swan Neck Adapter                          | 9          |

## T

|                                |     |
|--------------------------------|-----|
| Test Tube Basket               | 35  |
| Test Tube Brush, Nylon         | 33  |
| Test Tube Stand                | 34  |
| Test Tube, Stand, 3 Tier       | 34  |
| Test Tube, Stand, Wire Pattern | 35  |
| Thermometer Pocket             | 17  |
| Tips For Micropipette          | 73  |
| Tong Crucible                  | 110 |
| Tong, Flask                    | 105 |
| Tray                           | 112 |
| Tripod Stand                   | 116 |

## TUBES

|  |     |
|--|-----|
| Centrifuge Tube, Conical, Glass              | 26  |
| Centrifuge Tube, Conical, PP                 | 28  |
| Centrifuge Tube, Round, Glass                | 32  |
| Centrifuge Tube, Round, PP                   | 28  |
| Culture Tube, PP                             | 29  |
| Culture Tube, Flat Bottom, Glass             | 26  |
| Culture Tube, Round Bottom, Glass            | 25  |
| Micro Centrifuge Tube, PP                    | 27  |
| Oak Ridge Centrifuge Tube, PP                | 28  |
| Rubber                                       | 118 |
| Test Tube, Glass, Round Bottom, With Stopper | 32  |
| Test Tube, Round Bottom, Glass               | 33  |

## U

|                                      |       |
|--------------------------------------|-------|
| Universal Clamp                      | 114   |
| Utility Sets (Organic Chemistry Set) | 97-98 |
| Utility Tray                         | 112   |

## V

|   |            |
|---|------------|
| Vacuum Bottle, Glass                        | 134        |
| Vacuum Bottle, PP                           | 143        |
| Vials                                       | 29-30      |
| VOLUMETRIC FLASKS                           | 59-67      |
| Amber Glass, With Stopper, ASTM             | 65, 66     |
| Amber Glass, With Stopper, DIN              | 59, 60, 61 |
| Amber Glass, With Stopper, USP              | 62         |
| Clear Glass, With Stopper, ASTM             | 63, 64     |
| Clear Glass, With Stopper, DIN              | 59, 60, 61 |
| Clear Glass, With Stopper, USP              | 62         |
| Snap Cap, Clear Glass, ASTM                 | 67         |
| Volumetric Flask, PP                        | 67         |
| Volumetric Pipettes, One Mark, Clear Glass, | 51-53      |

## W

|                         |     |
|-------------------------|-----|
| Watch Glass             | 121 |
| Weighing Bottles, Glass | 136 |
| Weighing Scoops         | 107 |
| Wire Mesh               | 117 |







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