ISO 9001:2000 Certified

GLASSCO

General Catalogue

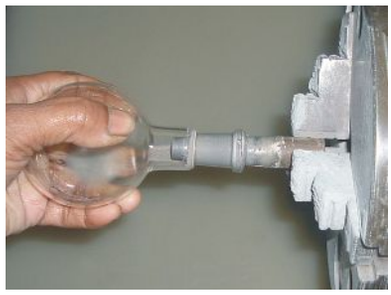
LABORATORY GLASSWARE

Glassco
New Plant

Grinding Machine

An important step is grinding. GLASSCO uses advanced grinding machines for precise grinding of sockets & cones with diamond edged tools.

Final step is to do manual polishing after grinding for best fitting and smooth finish



Hand polishing being done

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.

For proper annealing and curing prints, GLASSCO uses a microprocessor controlled furnace that can handle huge quantity of all goods. The electronic furnace has set temperature profile in entire thermal zone which is monitored for process control

The Conveyorised
Automatic Furnace

All glassware after grinding is washed in a modern ultrasonic cleaner to ensure that all the dirt/glass particles are removed and the glassware is thoroughly clean.

The cleaner employs ultrasonic vibrations together with pure hot water to clean Glassware. The ultrasonic cleaner also acts as automatic dryer for drying the cleaned glassware for immediate packing.

Quality Policy

Calibration Machine

VOLUMETRIC GLASSWARE

Glassco has in house well equipped temperature controlled calibration laboratory with electronic precision balances, temperature indicators that are traceable to international standards, computerized machines, experienced & trained manpower for calibration of volumetric glassware.

Volumetric glassware are first calibrated with computer controlled calibration machines with distilled water. The meniscus is determined electronically for the exact lowest point by an electronic eye, the calibration mark is applied at the same moment. Due to this, you get accuracies that can never be achieved manually. Calibration marks are applied with fine diamond marking tools for clear visibility and evenness of location.

Unlike other manufacturers, all volumetric glassware goes through a subsequent batch testing. A 10% sample is regularly verified for calibration accuracy. A record of the tests in maintained in the database and is used for statistical quality control.

As we manufacture glassware with sizes, accuracy of calibration as per DIN, ISO ,ASTM and USP standards, calibration data is recorded for each product kind! . The products are subsequently also tested for quality of prints, resistance to chemicals, interchangeability and mechanical strength to automatic cleaning equipments!

Volumetric glassware is available with certification, both individual as well as batch. Individually certified glassware is individually numbered and provided with an individual calibration certificate in a pack of one. Batch certified glassware is available in a pack of one with batch record of calibration.

The samples of Batch and Individual Certificates are given on right hand side.

Glassco Laboratory Equipments

INDIVIDUAL CALIBRATION CERTIFICATE
(USP-STANDARD) SERIAL NO 105

Calibration Certificate

Glassco Laboratory Equipments

INDIVIDUAL CALIBRATION CERTIFICATE
SERIAL NO 208

Calibration Certificate

Glassco Laboratory Equipments

BATCH CERTIFICATE

Calibration Certificate

LOW EXPANSION BOROSILICATE GLASS

Form 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 from, 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 resillient 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.

	Percentage by weight
SiO_2	81
B_2O_3	13
Na_2O	4

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.

Cofficient of Linear Expansion	32.5x10-7°C
Strains Point	515°C
Annealing Point	565°C
Softening Point	820°C
Specific Heat	0.2
Thermal Conductivity (Cal/cm³/°C/Sec)	0.0027

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 hydroflioric acid, very hot phosphoric acid and alkaline solutions increasingly attack the glass surface with rising concentration and temperature.

Contact Chemical	Duration in hour	Loss in Wt. mg/m²
Water distilled at 100°C	6	10
Water Vapour Steam at 121°C	1	75
Acid HCl	6	100
80% H2So4at 130°C	12	140
Alkali- 1N soln. of NA2Co3 boiling	6	4000
Infusion Fluids Isotonic		
Nacl (0.85%) 121°C	2.5	70
Glucose (5%) 121°C	2.5	50

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 consquently clear and colourless.

Care and Maintenance

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.

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.

1. 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.
2. 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.
3. Always cool vessels slowly to prevent thermal breakage.
4. Never apply heat to badly scratched or etched vessel as the thermal strength will have been greatly reduced.
5. Never apply point source heating to a vessel as this will greatly increase the chance of breakage.
6. 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.
7. 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.
8. Ensure that the flame contacts the vessel below the liquid level. Heating above that level will invite breakage of the vessels.
9. 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 Bollowed when electrical heat sources.

Mixing and Stirring

1. Always use a policemen's or similar device on stirring rods to prevent scratching the inside of a vessel.
2. When using a glass vessel with a magnetic stirrer always use a covered follower to prevent abrading the inside of the vessel.
3. 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.
4. 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

1. Never use a glassware beyond the recommended safe limit.
2. Always use a safety screen when working with glassware subjected to pressure of vacuum,
3. Never subject glassware to sudden pressure changes. Always apply and release positive and negative pressures gradually.

Joining and Separating glass apparatus

1. When storing glass stopcocks and joints, insert a thin strip of paper between joint surfaces to prevent sticking.
2. Never store stopcocks for long periods with lubricant still on the ground surfaces.
3. Glass stopcocks on Burettes and Separation Funnels should be lubricated frequently to prevent sticking.
4. 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.
5. 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.

6. 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.
7. 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.
8. Always fire polish rough ends of glass tubing before attempting to insert into flexible tubing. The lubricants recommended above may also prove useful.
9. Never attempt to pull a thermometer out of a rubber bung. Always cut the bung away.

PERSONAL SAFETY

1. Use tongs to asbestos gloves to remove all glassware from heat. Hot glass can cause severs burns.
2. Protective gloves, safety shoes, aprons, and goggles should be worn as safety chemical accidents, spilling or splattering.
3. 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.
4. 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.
5. 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.
6. 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.
7. Never fill receptacle with material other than that called for by the label. Label all containers before filling. Throw away contents of unlabelled containers.
8. To avoid breakage when clamping glassware, do not permit glass-to-metal contact and do not use excessive force to tighten the clamps.
9. 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.
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 hands.

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

1. Cleaning of glassware which has contained hazardous materials must be solely undertaken by experienced personal.
2. 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.
3. Glassware which is contaminated with blood clots, culture media, etc. must be sterilized before cleaning.
4. 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
5. Wash glassware as quickly as possible after use but if delays are unavoidable, the articles should be allowed to soak in water.
6. Grease is removed by weak sodium carbonate solution or acetone or fat solvents. Never use strong alkalis.
7. 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.
8. During washing all parts of the article should be throughly 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.

9. 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.
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

1. 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 or each pipette. At a convenient time, the pipettes may then be drained and placed and 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 then 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)

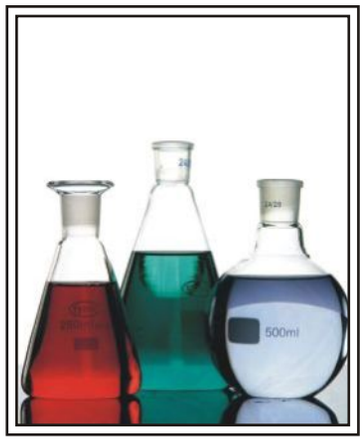
1. Remove the stopcock key and wash the burette with detergent and water.
2. Rinse with tap water until all the dirt is removed. Then rinse with distilled water and dry.
3. Wash the stopcock key separately. Before the stopcock key is replaced in the buretts stopcock key are not interchangeable 4. Always cover burettes when not in use.

Culture Tubes

1. 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 (15ib. pressure). Media which solidify on cooling should be poured out while the tubes are emptied, brush with detergent and water, rinse throughly with tap water, rinse with distilled water, place in a basket and dry.
2. 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.
3. 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..

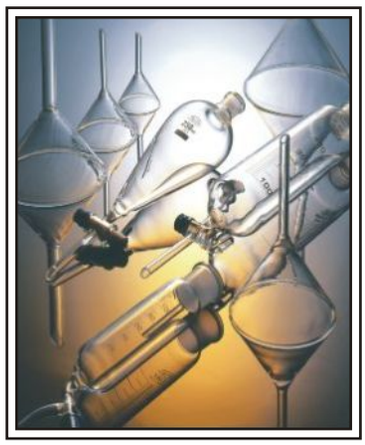
Serological Tube

1. 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 expendient to sterilize all tubes as routine.
2. 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.
3. 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 s e r o l o g i c reactions.
4. Serological tubes and glassware should be kept separate from all other glassware and used for nothing except serologic procedures.



Interchangeable Glassware

Volumetric Glassware



Separating Funnels

Condensers / Assemblies

General Glassware

GLASSCO

INTERCHANGEABLE GLASSWARE

Sockets: Single

Cat. No.	Socket	Approx. O.D. of tube mm.	Minimum Shank Length mm
001.202.01	7/16	10	100
001.202.02	10/19	13	100
001.202.03	12/21	16	100
001.202.04	14/23	18	100
001.202.05	19/26	22	100
001.202.06	24/29	28	100
001.202.07	29/32	32	100
001.202.08	34/35	38	100
001.202.09	40/38	45	100
001.202.10	45/40	50	100
001.202.11	50/42	55	100
001.202.12	55/44	60	100

Cones: Single

Cat. No.	Cone	Approx. O.D. of tube mm.	Minimum Shank Length mm
002.202.01	7/16	6	90
002.202.02	10/19	8	90
002.202.03	12/21	9	90
002.202.04	14/23	13	90
002.202.05	19/26	16	90
002.202.06	24/29	22	90
002.202.07	29/32	26	90
002.202.08	34/35	30	90
002.202.09	40/38	36	90
002.202.10	45/40	40	90
002.202.11	50/42	45	90
002.202.12	55/44	50	90

Cones: with tip Single

Cat. No.	Cone	Approx. O.D. of tube mm.	Minimum Shank Length mm
003.202.01	7/16	6	90
003.202.02	10/19	8	90
003.202.03	12/21	9	90
003.202.04	14/23	13	90
003.202.05	19/26	16	90
003.202.06	24/29	22	90
003.202.07	29/32	26	90
003.202.08	34/35	30	90
003.202.09	40/38	36	90
003.202.10	45/40	40	90
003.202.11	50/42	45	90
003.202.12	55/44	50	90

Sockets: Full length Single

Cat. No.	Socket size	Approx. O.D. of tube mm.	Minimum Shank Length mm
004.202.01	5/20	8	100
004.202.02	7/25	10	100
004.202.03	10/30	13	100
004.202.04	12/32	16	100
004.202.05	14/35	18	100
004.202.06	19/38	22	100
004.202.07	24/40	28	100
004.202.08	29/42	32	100
004.202.09	34/45	38	100
004.202.10	45/50	50	100

Cone Full Length Plain End Single

Cat. No.	Cone size	Approx. O.D. of tube mm.	Minimum Shank Length mm
005.202.01	5/20	4	90
005.202.02	7/25	6	90
005.202.03	10/30	8	90
005.202.04	12/32	10	90
005.202.05	14/35	13	90
005.202.06	19/38	16	90
005.202.07	24/40	22	90
005.202.08	29/42	26	90
005.202.09	34/45	30	90
005.202.10	45/50	40	90

Sockets: Double

Cat. No.	Socket size	Min. Shank Length mm.	Max. outside diameter of Shank mm.
006.202.01	7/16	85	11
006.202.02	10/19	85	14
006.202.03	14/23	85	18
006.202.04	19/26	85	22
006.202.05	24/29	100	28
006.202.06	29/32	100	32
006.202.07	34/35	100	38

Cone: Plain Double

Cat. No.	Cone size	Min. Shank Length mm.	Max. outside diameter of Shank mm.
007.202.01	10/19	50	8
007.202.02	14/23	80	13
007.202.03	19/26	80	16
007.202.04	24/29	95	22
007.202.05	29/32	100	26
007.202.06	34/35	150	30

PS : Cone with Tip can be provided on request.

Spherical Joint: Ball

Cat. No.	Cup Joint (male)	Approx. Bore	Min. Shank Length mm.
008.202.02	S13	5	100
008.202.03	S19	9	100
008.202.04	S29	15	100
008.202.05	S35	19	100
008.202.06	S41	27	100

Spherical Joint: Cup

Cat. No.	Cup Joint (female)	Approx Bore	Min. Shank Length mm.
009.202.02	S13	5	100
009.202.03	S19	9	100
009.202.04	S29	15	100
009.202.05	S35	19	100
009.202.06	S41	27	100

Joint Clips: Metal

Cat. No.	To fit spherical joint size	To fit flat flange Joint size
010.202.01	S 13	-
010.202.02	S 19	-
010.202.03	S 29	-
010.202.04	S 35	-
010.202.05	S 41	-

Stopper: Hollow with Flat bottom

Cat. No.	N/S	Shape
011.202.01	10/19	Hexagonal
011.202.02	12/21	-
011.202.02A	14/23	-
011.202.03	19/26	-
011.202.04	24/29	-
011.202.05	29/32	-
011.202.06	34/35	-

Stopper: Hollow with Tip shape Hexagonal

Cat. No.	Cone	Shape
011.205.01	10/19	Hexagonal
011.205.02	12/21	-
011.205.03	14/23	-
011.205.04	19/26	-
011.205.05	24/29	-
011.205.06	29/32	-
011.205.07	34/35	-

Stopper, Solid: Penny or Flat Head

Cat. No.	Cone
012.202.01	10/19
012.202.02	14/23
012.202.03	19/26
012.202.04	24/29
012.202.05	29/32
012.202.06	34/35

Reduction: Adapters

Cat. No.	Socket Size	Cone Size
013.202.01	14/23	14/23
013.202.01A	14/23	19/26
013.202.02	14/23	24/29
013.202.03	14/23	29/32
013.202.04	19/26	24/29
013.202.05	19/26	29/32
013.202.06	19/26	34/35
013.202.07	19/26	40/38
013.202.08	19/26	45/40
013.202.09	19/26	55/44
013.202.10	24/29	29/32
013.202.11	24/29	34/35
013.202.12	24/29	40/38
013.202.13	24/29	45/40
013.202.14	24/29	50/42
013.202.15	24/29	55/44
013.202.16	29/32	34/35
013.202.17	29/32	40/38
013.202.18	29/32	45/40
013.202.19	34/35	40/38
013.202.20	34/35	45/40
013.202.21	34/35	50/42

Expansion Adapters

Cat. No.	Socket Size	Cone Size
014.202.01	19/26	14/23
014.202.02	24/29	14/23
014.202.03	24/29	19/26
014.202.03A	29/32	14/23
014.202.04	29/32	19/26
014.202.05	29/32	24/29
014.202.06	34/35	19/26
014.202.07	34/35	24/29
014.202.08	34/35	29/32
014.202.09	40/38	24/29
014.202.10	45/40	29/32

Multiple Adapters, with Two Necks Parallel

Cat. No.	Socket Size	Cone Size
015.202.01	14/23	14/23
015.202.01A	14/23	19/26
015.202.02	19/26	19/26
015.202.03	19/26	24/29
015.202.04	24/29	24/29
015.202.05	19/26	34/35
015.202.06	29/32	29/32

Multiple Adapters, with Two Necks one vertical & one at 45°

Cat. No.	Socket Size	Cone Size
016.202.01	14/23	14/23
016.202.01A	14/23	19/26
016.202.01B	14/23	24/29
016.202.02	19/26	19/26
016.202.03	19/26	24/29
016.202.04	14/23	29/32
016.202.05	29/32	29/32

Multiple Adapters, with three Necks, Two Parallel and one at 45°

Cat. No.	Socket Size	Cone Size
017.202.01	19/26	19/26
017.202.01A	19/26	24/29
017.202.02	19/26	29/32
017.202.03	24/29	24/29
017.202.04	29/32	29/32
017.202.05	29/32	29/30

Swan Neck Adapters.

Cat. No.	Socket Size	Cone Size
018.202.01	14/23	19/26
018.202.01A	19/26	19/26
018.202.02	19/26	24/29
018.202.03	24/29	24/29
018.202.04	29/32	29/32

Receiver Delivery Adapters.

Short Stem

Cat. No.	Socket Size	Approx. length mm
019.202.01	14/23	65
019.202.02	19/26	65
019.202.03	24/29	65
019.202.04	29/32	65

Long Stem

Cat. No.	Socket Size	Approx. length mm
019.202.05	14/23	190
019.202.06	19/26	200
019.202.07	24/29	200
019.202.08	29/32	200

Receiver Adapters Straight.

Cat. No.	Socket Size
020.202.01	14/23
020.202.02	19/26
020.202.03	24/29
020.202.04	29/32

Receiver Adapters Bend with Vent.

Cat. No.	Socket Size	Cone Size
021.202.01	14/23	14/23
021.202.02	19/26	19/26
021.202.03	19/26	24/29
021.202.04	24/29	24/29
021.202.05	29/32	29/32

Receiver Adapters, Straight
with Vacuum connection

Cat. No.	Socket Size	Cone Size
022.202.01	14/23	14/23
022.202.02	14/23	19/26
022.202.02A	19/26	19/26
022.202.03	19/26	24/29
022.202.04	24/29	24/29
022.202.05	24/29	29/32
022.202.06	29/32	29/32

Receiver Adapters, Bend
with Vacuum connection

Cat. No.	Socket Size	Cone Size
022.201.01	14/23	14/23
022.201.02	14/23	19/26
022.201.03	19/26	19/26
022.201.04	19/26	24/29
022.201.05	24/29	24/29
022.201.06	24/29	29/32
022.201.07	29/32	29/32

Receiver Adapters, Inclined at an angle 105°.

Cat. No.	Socket Size	Cone Size
023.202.01	14/23	14/23
023.202.02	19/26	19/26
023.202.03	19/26	24/29
023.202.04	24/29	24/29
023.202.05	29/32	29/32

Receiver Adapters, With Multiple connection.

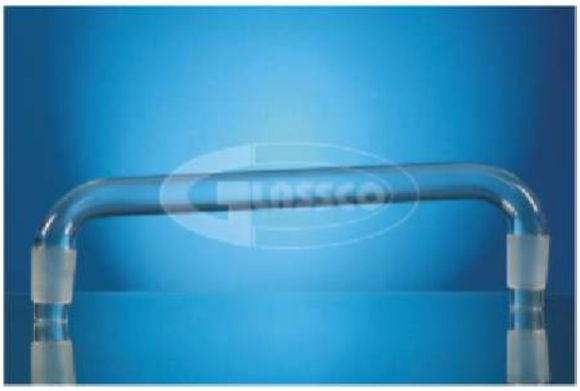
Cat. No.	Socket Size	Cone Size
024.202.01	14/23	14/23
024.202.02	14/23	19/26
024.202.03	19/26	19/26

Receiver Adapters, Plain Bend.

Cat. No.	Socket Size	Cone Size
025.202.00	14/23	14/23
025.202.00A	14/23	19/26
025.202.01	19/26	19/26
025.202.02	19/26	24/29
025.202.03	24/29	24/29
025.202.04	29/32	29/32

Recovery Bend, Sloping.

Cat. No.	Cone Size to fit flask	Cone size to fit condenser
026.202.01	14/23	14/23
026.202.02	24/29	14/23
026.202.03	19/26	19/26
026.202.04	24/29	19/26
026.202.05	29/32	19/26
026.202.06	29/32	29/32
026.202.07	24/29	24/29
026.202.08	34/35	24/29
026.202.09	29/32	24/29
026.202.10	34/35	34/35



Receiver Bend, Vertical.

Cat. No.	Cone Size to fit flask	Cone size to fit condenser
027.202.01	14/23	14/23
027.202.02	19/26	19/26
027.202.03	24/29	19/26
027.202.04	24/29	24/29
027.202.05	29/32	29/32

Still Head Plain with thermometer socket

Cat. No.	Socket Size	Cone size to fit flask	Cone size to fit condenser
028.202.01	14/23	14/23	14/23
028.202.02	14/23	19/26	19/26
028.202.03	14/23	24/29	19/26
028.202.04	14/23	29/32	19/26
028.202.05	14/23	34/35	19/26
028.202.06	14/23	24/29	24/29
028.202.07	14/23	34/35	24/29
028.202.08	14/23	29/32	24/29
028.202.09	14/23	29/32	29/32
028.202.10	14/23	34/35	29/32

Claisen Heads, Sloping With 2xB14 Socket .

Cat. No.	Socket Size	Cone size to fit flask	Cone size to fit condenser
029.202.01	14/23	14/23	14/23
029.202.02	14/23	19/26	19/26
029.202.03	14/23	24/29	19/26
029.202.04	14/23	24/29	24/29
029.202.05	14/23	29/32	29/32
029.202.06	14/23	34/35	24/29

Splash Heads, Vertical.

Cat. No.	Cone size to fit flask	Cone size to fit condenser
030.202.01	14/23	14/23
030.202.02	19/26	24/29
030.202.03	29/32	29/32

Splash Heads, Pear shape Vertical.

Cat. No.	Cone size to fit flask	Cone size to fit condenser
031.202.01	14/23	14/23
031.202.02	19/26	19/26
031.202.03	24/29	19/26
031.202.04	24/29	24/29
031.202.05	29/32	29/32

Splash Heads, Pear shape Sloping.

Cat. No.	Cone size to fit flask	Cone size to fit condenser
032.202.01	14/23	14/23
032.202.02	19/26	19/26
032.202.03	24/29	19/26
032.202.04	24/29	24/29
032.202.05	29/32	29/32

Steam Distillation Heads, Sloping.

Cat. No.	Cone size to fit flask	Cone size to fit condenser
033.202.01	24/29	19/26
033.202.02	34/35	19/26
033.202.03	34/35	24/29

Adapter cone to Rubber Tubing, Right angle connection, with Glass Stopcock.

Cat. No.	Cone
034.202.01	14/23
034.202.02	19/26
034.202.03	24/29
034.202.04	29/32

Optional:
(1) The above adaptors can also be supplied with PTFE KEY STOPCOCK.
(2) The above adapters can also be supplied with Straight Connection. Please ask for prices separately.

Adapter Socket to Rubber Tubing, Straight with PTFE Key Stopcock.

Cat. No.	Socket
035.202.01	14/23
035.202.02	19/26
035.202.03	24/29
035.202.04	29/32

Optional:
(1) The above adaptors can also be supplied with Glass STOPCOCK.
(2) The above adapters can also be supplied with Right Angle Connection. Please ask for prices separately.

Adapter Cone to Rubber Tubing
right angle connection.

Cat. No.	Cone
036.202.01	14/23
036.202.02	19/26
036.202.03	24/29
036.202.04	29/32

Optional: The above adapters can also be supplied with Straight Connection.

Adapter Cone with stem to Rubber Tubing,
Right angle connection.

Cat. No.	Cone
037.202.01	14/23
037.202.02	19/26
037.202.03	24/29
037.202.04	29/32

Adapter Sockets to Rubber Tubing,
straight connection.

Cat. No.	Socket
038.202.01	14/23
038.202.02	19/26
038.202.03	24/29
038.202.04	29/32

Adapters Socket to cone with Tee Connection

Cat. No.	Socket	Cone
039.202.01	14/23	14/23
039.202.02	14/23	19/26
039.202.03	14/23	24/29
039.202.04	14/23	29/32
039.202.05	19/26	19/26
039.202.06	19/26	24/29
039.202.07	19/26	29/32
039.202.08	24/29	24/29
039.202.09	24/29	29/32
039.202.10	29/32	29/32

U Tube, with two sockets.

Cat. No.	Socket
040.202.01	14/23
040.202.02	19/26

Drying Tube.

Cat. No.	Cone
041.202.01	14/23
041.202.02	19/26
041.202.03	24/29
041.202.04	29/32

Thermometer Pocket

Cat. No.	Cone	Approx. Stem Length
042.202.01	14/23	45 mm
042.202.02	19/26	45 mm

Air Leak Tube/Gas Inlet Tube

Cat. No.	Cone
044.202.01	14/23
044.202.02	19/26
044.202.03	24/29
044.202.04	29/32

Simple Glands with cap

Cat. No.	To fit Stirrer Shaft	Cone
056.202.01	6mm	14/23
056.202.02	6mm	19/26
056.202.03	6mm	24/29
056.202.04	6mm	29/32

PS: All kind of Adapters can also be provided with Plastic Hose Connectors instead of Glass Hose Connectors.

Please see the Photo. For ordering these adapters please ask for prices separately and mark the product as SC.

Flask Round Bottom, Single Neck DIN 12348 Medium

Cat. No.	Nominal capacity ml	Socket size	Approx. overall height mm.	Dia mm
057.202.02	5	14/23	65	27
057.202.04	10	14/23	65	33
057.202.05	25	14/23	85	41
057.202.06	25	19/26	85	41
057.202.07	25	24/29	85	41
057.202.08	50	14/23	105	51
057.202.09	50	19/26	105	51
057.202.10	50	24/29	105	51
057.202.10A	50	29/32	105	51
057.202.11	100	14/23	115	64
057.202.12	100	19/26	115	64
057.202.13	100	24/29	115	64
057.202.14	100	29/32	115	64
057.202.16	150	19/26	120	74
057.202.17	150	24/29	120	74
057.202.18	150	29/32	120	74
057.202.20	250	14/23	145	85
057.202.21	250	19/26	145	85
057.202.22	250	24/29	145	85
057.202.23	250	29/32	145	85
057.202.24	250	34/35	145	85
057.202.25	500	19/26	175	105
057.202.26	500	24/29	175	105
057.202.27	500	29/32	175	105
057.202.28	500	34/35	175	105
057.202.29	1000	19/26	210	131
057.202.30	1000	24/29	210	131
057.202.31	1000	29/32	210	131
057.202.32	1000	34/35	210	131
057.202.33	2000	24/29	260	166
057.202.34	2000	29/32	260	166
057.202.35	2000	34/35	260	166

PS: If you need flasks in short & long height please mention separately

Flasks Flat Bottom, Single neck DIN 12348 Medium

Cat. No.	Nominal capacity ml	Socket size	Approx. overall height mm.	Dia mm
058.202.01	50	19/26	90	51
058.202.02	50	24/29	90	51
058.202.02A	50	29/32	90	51
058.202.03	100	19/26	110	64
058.202.04	100	24/29	110	50
058.202.05	100	29/32	110	64
058.202.07	150	19/26	115	74
058.202.08	150	24/29	115	74
058.202.09	150	29/32	115	74
058.202.11	250	19/26	140	85
058.202.12	250	24/29	140	85
058.202.13	250	29/32	140	85
058.202.14	250	34/35	140	85
058.202.15	500	19/26	170	105
058.202.16	500	24/29	170	105
058.202.17	500	29/32	170	105
058.202.18	500	34/35	170	105
058.202.19	1000	24/29	200	131
058.202.20	1000	29/32	200	131
058.202.21	1000	34/35	200	131
058.202.22	2000	24/29	250	166
058.202.23	2000	29/32	250	166
058.202.24	2000	34/35	250	166

Above flasks can also be provided in other joint sizes.

Flasks, Round Bottom, Two neck DIN 12394

Cat. No.	Nominal capacity ml	Socket size	Side Socket	Approx. Overall height mm.
059.202.01	50	24/29	14/23	115
059.202.02	50	29/32	14/23	115
059.202.03	100	24/29	14/23	115
059.202.04	100	24/29	19/26	115
059.202.05	100	29/32	14/23	115
059.202.06	250	24/29	14/23	145
059.202.07	250	24/29	19/26	145
059.202.08	250	29/32	14/23	145
059.202.09	500	24/29	14/23	175
059.202.10	500	24/29	19/26	175
059.202.11	500	29/32	14/23	175
059.202.12	1000	24/29	14/23	210
059.202.13	1000	24/29	19/26	210
059.202.14	1000	29/32	14/23	210
059.202.15	2000	34/35	19/26	223

Above flasks can also be provided in other joint sizes.

Flasks, Round Bottom, Three neck at Angle DIN 12394

Cat. No.	Nominal capacity ml	Centre socket	Side sockets	Approx. overall height mm.
060.202.01	100	19/26	14/23	115
060.202.02	100	24/29	14/23	115
060.202.03	100	24/29	19/26	115
060.202.03A	100	29/32	14/23	115
060.202.04	250	19/26	19/26	145
060.202.05	250	24/29	14/23	145
060.202.06	250	24/29	19/26	145
060.202.07	250	29/32	14/23	145
060.202.08	250	29/32	19/26	145
060.202.08A	250	29/32	29/32	145
060.202.09	500	24/29	14/23	175
060.202.10	500	24/29	19/26	175
060.202.11	500	29/32	14/23	175
060.202.12	500	29/32	19/26	175
060.202.12A	500	29/32	29/32	175
060.202.13	1000	24/29	14/23	210
060.202.14	1000	24/29	19/26	210
060.202.15	1000	29/32	14/23	210
060.202.16	1000	29/32	19/26	210
060.202.17	1000	29/32	29/32	210
060.202.18	2000	24/29	19/26	260
060.202.19	2000	29/32	24/29	260
060.202.20	2000	29/32	29/32	290

Above flasks can also be provided in other joint sizes.

Flask Round Bottom, three neck Parallel DIN 12392

Cat. No.	Nominal capacity ml	Center socket	Side sockets	Approx. overall height mm.
061.202.01	250	24/29	19/26	145
061.202.02	250	29/32	14/23	145
061.202.02A	250	29/32	29/32	145
061.202.03	500	24/29	19/26	175
061.202.04	500	29/32	14/23	175
061.202.05	500	29/32	19/26	175
061.202.05A	500	29/32	29/32	175
061.202.06	1000	24/29	19/26	210
061.202.07	1000	29/32	14/23	210
061.202.08	1000	29/32	19/26	210
061.202.09	1000	29/32	24/29	210
061.202.10	1000	29/32	29/32	210
061.202.11	2000	24/29	19/26	260
061.202.12	2000	29/32	19/26	260
061.202.13	2000	29/32	29/32	260
061.202.14	2000	34/35	19/26	260
061.202.15	2000	34/35	24/29	260

Above flasks can also be provided in other joint sizes.

Flask Pear Shape, single neck DIN 12383

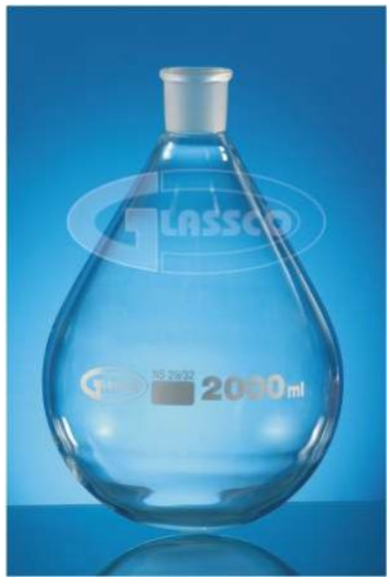
Cat. No.	Nominal capacity ml	Side Socket	Approx. overall height mm.	Approx. diameter mm.
062.202.06	25	14/23	90	38
062.202.07	50	14/23	110	48
062.202.09	100	14/23	125	58

Flasks, Pear Shape, Two neck

Cat. No.	Nominal capacity ml	Centre Socket	Side Socket	Approx. overall height mm.
063.202.01	50	14/23	14/23	110
063.202.02	100	14/23	14/23	125

Flasks, Evaporating,

Cat. No.	Nominal capacity ml	Side Socket	Approx. overall height mm.
069.202.01	50	29/32	94
069.202.02	100	24/29	110
069.202.03	100	29/32	110
069.202.04	250	24/29	140
069.202.05	250	29/32	140
069.202.06	500	24/29	170
069.202.07	500	29/32	170
069.202.08	1000	24/29	210
069.202.09	1000	29/32	210
069.202.10	2000	29/32	250



Flasks, Kjeldahl

Cat. No.	Nominal capacity ml	Approx. overall height mm.	Socket Size
070.202.01	50	162	19/26
070.202.02	100	165	19/26
070.202.03	100	265	24/29
070.202.04	300	295	24/29
070.202.05	500	305	24/29
070.202.06	800	325	24/29

Flasks, Conical, (Erlenmeyer) DIN 12387

Cat. No.	Nominal capacity ml	Socket Size	Approx. overall diameter mm.	Approx. overall height mm.
071.202.06	25	14/23	75	42
071.202.07	25	19/26	75	42
071.202.08	50	14/23	85	51
071.202.09	50	19/26	85	51
071.202.10	50	24/29	85	64
071.202.10A	50	29/32	85	64
071.202.11	100	14/23	105	64
071.202.12	100	19/26	105	64
071.202.13	100	24/29	105	64
071.202.14	100	29/32	105	64
071.202.15	150	19/26	118	74
071.202.16	150	24/29	118	74
071.202.17	150	29/32	118	74
071.202.17A	200	29/32	131	79
071.202.18	250	19/26	140	85
071.202.19	250	24/29	140	85
071.202.20	250	29/32	140	85
071.202.21	250	34/35	140	85
071.202.21A	300	29/32	156	87
071.202.22	500	19/26	175	105
071.202.22A	500	24/29	175	105
071.202.23	500	29/32	175	105
071.202.24	500	34/35	175	105
071.202.25	1000	24/29	220	131
071.202.26	1000	29/32	220	131
071.202.27	1000	34/35	220	131
071.202.28	2000	29/32	280	166
071.202.29	2000	34/35	280	166

Flasks, Iodine.

Cat. No.	Nominal capacity ml	Joint Size	Min. Cup Capacity ml.
072.202.01	250	24/29	20
072.202.02	250	29/32	20
072.202.03	500	24/29	20
072.202.04	500	29/32	20

Flasks, Distillation, with side Tube

Cat. No.	Nominal capacity ml	Dia mm	Height mm
073.202.03	100	65	215
073.202.04	250	85	226
073.202.05	500	105	240

Flasks, Buckner Filtration Bolt Neck

Cat. No.	Nominal capacity ml
074.202.01	100
074.202.02	250
074.202.03	500
074.202.04	1000
074.202.05	2000

Flasks, Conical, with Teflon Liner Screw Cap.

Cat. No.	Capacity	Dia mm
075.202.01	50	51
075.202.02	100	64
075.202.03	150	74
075.202.04	250	85
075.202.05	500	105
075.202.06	1000	131

Flasks, Erlenmeyer's Stoppered

Cat. No.	Capacity	Joint Size
076.202.01	100	29/32
076.202.02	250	29/32
076.202.03	500	29/32
076.202.04	1000	29/32
076.202.05	2000	29/32

Flasks, Kjeldhal Round Bottom Long Neck.

Cat. No.	Capacity	Dia mm	Height mm
077.202.01	100	58	240
077.202.02	300	81	300
077.202.03	500	101	325
077.202.04	800	115	350

Tubes, Culture, Media, Round Bottom, with Screw cap & Teflon Liner.

Cat. No.	Capacity	O.D.x Length (mm)
082.202.01	5	15 x 75
082.202.02	10	15 x 125
082.202.03	15	15 x 150
082.202.04	25	18 x 150
082.202.05	30	25 x 100
082.202.06	45	25 x 150
082.202.07	60	25 x 200
082.202.08	100	32 x 200

PS : Test tubes in other sizes can be provided on request.

Tubes, Culture, Media, Flat Bottom, with Screw cap & Teflon Liner

Cat. No.	Capacity	O.D.x Length (mm)
083.202.01	5	18 x 45
083.202.02	10	25 x 57
083.202.03	30	25 x 95
083.202.04	40	25 x 145

PS : Test tubes in other sizes can be provided on request.

Centrifuge Tube, Conical Bottom, Graduated

Cat. No.	Capacity	Height x O.D. (mm)
088.202.01	5	100 x 13
088.202.02	10	110 x 15
088.202.03	15	120 x 17
088.202.04	25	125 x 22
088.202.05	50	125 x 28

Centrifuge Tube Conical Bottom, Plain

Cat. No.	Capacity	Height x O.D. (mm)
089.202.02	5	100 x 13
089.202.03	10	110 x 15
089.202.05	15	120 x 17
089.202.06	25	125 x 22
089.202.07	50	125 x 28

Centrifuge Tube Round Bottom, Graduated.

Cat. No.	Capacity	Height x O.D. (mm)
094.202.01	12	16 x 110
094.202.02	30	24 x 110
094.202.03	40	28 x 110
094.202.04	50	30 x 110
094.202.05	100	45 x 110
094.202.07	200	55 x 116

Test Tube, with Joint & Stopper, Graduated.

Cat. No.	Size (mm)	Capacity (ml)	Stopper size
095.202.01	100x12	5	10/19
095.202.02	125x16	10	12/21
095.202.03	150x22	25	19/26
095.202.04	200x25	50	19/26

Test Tubes, with interchangeable stopper, Plain.

Cat. No.	Length x Dia. (mm)	Height x O.D.(mm)
096.202.01	100 x 12	10/19
096.202.02	125 x 15	12/21
096.202.03	150 x 18	14/23
096.202.04	150 x 25	19/26
096.202.05	200 x 25	19/26
096.202.06	200 x 32	24/29
096.202.07	200 x 38	24/29

Test Tubes, Round Bottom, with rim, Plain Boro 3.3

Cat. No.	Capacity	Height x O.D. (mm)	Wall Thickness
097.202.01	3	10x75	1.0
097.202.02	5	12x75	1.0
097.202.03	8	12x100	1.0
097.202.04	10	15x125	1.2
097.202.05	25	18x150	1.2
097.202.05	50	25x150	1.2
097.202.06	75	25x200	1.2

Test Tubes, Round Bottom, without rim.

Cat. No.	Capacity	Height x O.D. (mm)	Wall Thickness
097.210.01	3	10x75	1.0
097.210.02	5	12x75	1.0
097.210.03	8	12x100	1.0
097.210.04	10	15x125	1.2
097.210.05	25	18x150	1.2
097.210.05	50	25x150	1.2
097.210.06	75	25x200	1.2

Test Tubes Neutral Hard Glass, Round Bottom, Heat resistant. Autoclavable. Resistant to Temperature upto 350°C, with Rim.

Cat. No.	Size Approx. (mm)	Wall Thickness
099.202.01	10x75	0.90
099.202.02	12x100	1.00
099.202.03	15x125	1.00
099.202.04	15x150	1.00
099.202.05	18x150	1.00
099.202.06	25x150	1.00

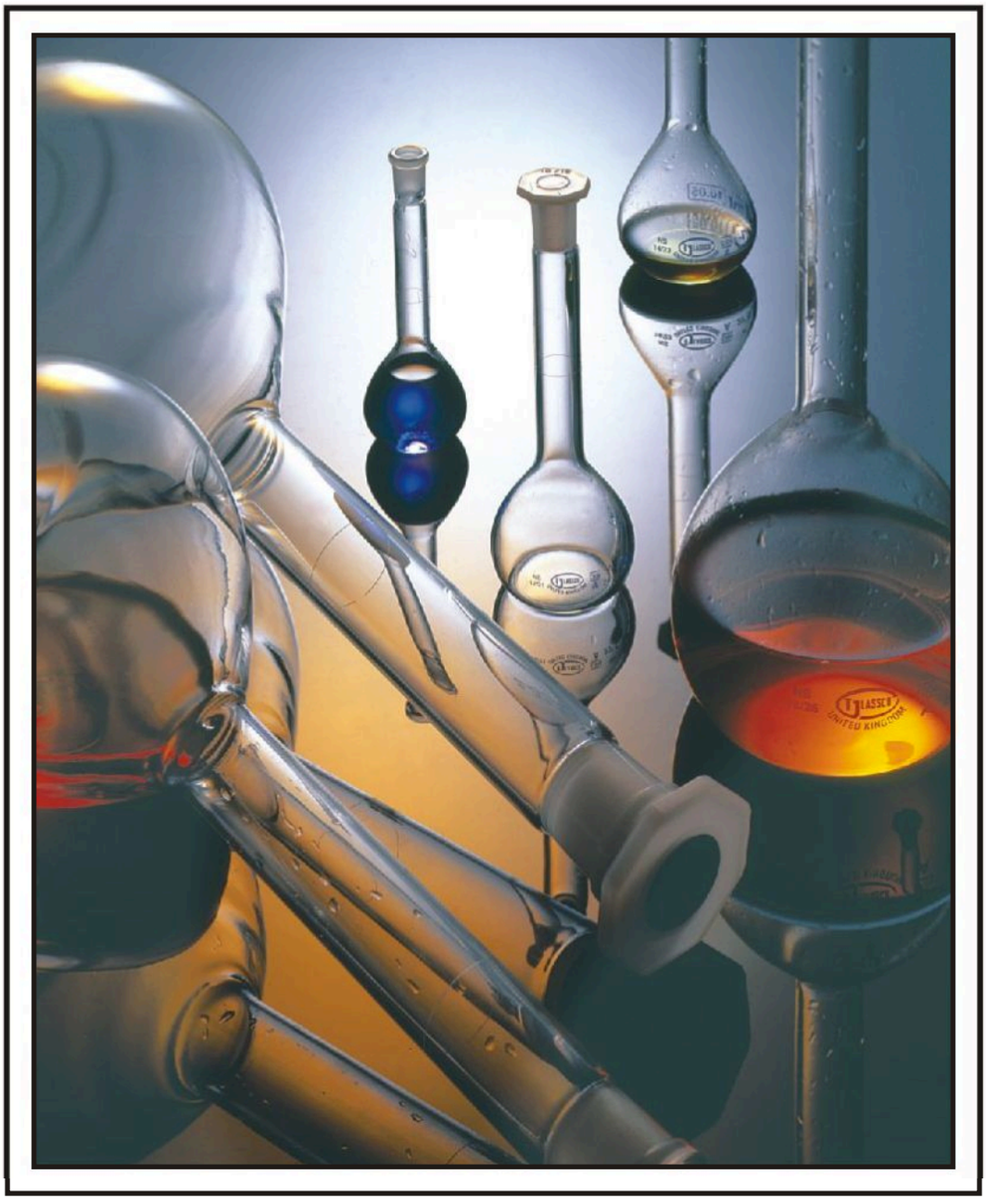
PS : Test tubes in other sizes can be provided on request.

Test Tubes Neutral Hard Glass, Heat resistant, Autoclavable, Resistant to Temperature upto 350°C, without Rim.

Cat. No.	Size Approx. (mm)	Wall Thickness
099.210.01	10x75	0.90
099.210.02	12x100	1.00
099.210.03	15x125	1.00
099.210.04	15x150	1.00
099.210.05	18x150	1.00
099.210.06	25x150	1.00

PS : (1) Test tubes in other sizes can be printed on request.
(2) Above test tubes can also available in Flat Bottom on request.

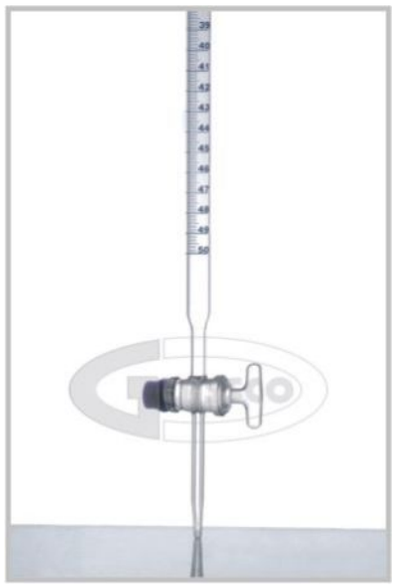
GLASSCO



VOLUMETRIC GLASSWARE

Burette with Straight Bore Glass Key Stopcock,
Accuracy as per class AS DIN 12700, ISO 385 (waiting time 30 seconds)

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
110.202.01	10	0.05	0.020
110.202.02	25	0.10	0.050
110.202.03	50	0.10	0.050
110.202.04	100	0.20	0.100

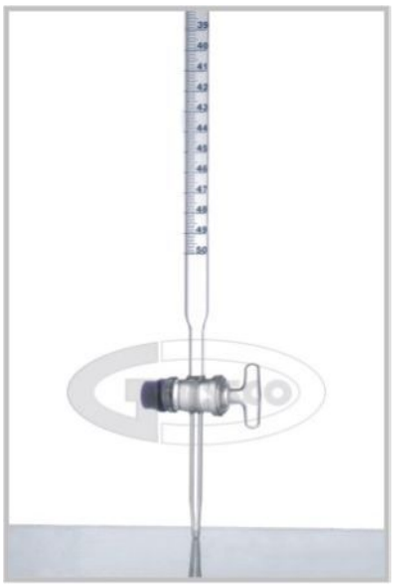


Burette with Straight Bore Glass Key Stopcock, Schell Bach Stripe
Accuracy as per class AS DIN 12700, ISO 385 (waiting time 30 seconds) With LOT Certificate.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
110.202.01A	10	0.05	0.020
110.202.02A	25	0.10	0.050
110.202.03A	50	0.10	0.050
110.202.04A	100	0.20	0.100

Burette with Straight Bore Glass Key Stopcock, Schell Bach Stripe,
Accuracy as per class AS DIN 12700, ISO 385 (waiting time 30 seconds) with Individual Work Certificate, Serially numbered.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
110.223.01	10	0.05	0.020
110.223.02	25	0.10	0.050
110.223.03	50	0.10	0.050
110.223.04	100	0.20	0.100



Burette with Straight Bore Glass Key Stopcock,
Accuracy as per class AS DIN 12700, ISO 385
With LOT Certificate (Waiting time 30 second)

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (± ml)
111.202.01	10	0.05	0.02
111.202.02	25	0.10	0.05
111.202.03	50	0.10	0.05
111.202.04	100	0.20	0.10

Burette with Straight Bore Glass Key Stopcock,
Accuracy as per class AS DIN 12700, ISO 385
With Individual Work Certificate
(Waiting time 30 second), Serially numbered

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (± ml)
111.223.01	10	0.05	0.02
111.223.02	25	0.10	0.05
111.223.03	50	0.10	0.05
111.223.04	100	0.20	0.10

Burette with Straight Bore Glass Key Stopcock,
Burettes Meet ASTM E-287 Class A
Specifications & USP Standard with
Individual work certificate, Serially numbered.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (± ml)
111.220.01	10	0.05	0.02
111.220.02	25	0.10	0.03
111.220.03	50	0.10	0.05

Burette with Screw Type Needle Valve PTFE stopcock

Accuracy as per class AS DIN 12700, ISO 385
(Waiting time 30 seconds).

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
112.202.01	10	0.05	0.020
112.202.02	25	0.10	0.050
112.202.03	50	0.10	0.050
112.202.04	100	0.20	0.100

Burette with Screw Type Needle Valve PTFE stopcock, Schell Bach Stripe

Accuracy as per class AS DIN 12700, ISO 385
(Waiting time 30 seconds). With LOT Certificate.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
112.202.01 A	10	0.05	0.020
112.202.02 A	25	0.10	0.050
112.202.03 A	50	0.10	0.050
112.202.04 A	100	0.20	0.100

Burette with Screw Type Needle Valve PTFE stopcock, Schell Bach Stripe

Accuracy as per class AS DIN 12700, ISO 385
(Waiting time 30 seconds).
With Individual Work Certificate, Serially numbered.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
112.223.01 A	10	0.05	0.020
112.223.02 A	25	0.10	0.050
112.223.03 A	50	0.10	0.050
112.223.04 A	100	0.20	0.100

Burette with Screw Type Needle Valve PTFE stopcock. With LOT Certificate
Accuracy as per AS DIN 12700 ISO 385

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
113.202.01	10	0.05	0.02
113.202.02	25	0.10	0.05
113.202.03	50	0.10	0.05
113.202.04	100	0.20	0.10

Burette with Screw Type Needle Valve PTFE Stopcock.
With Individual Work Certificate, Serially numbered,
Accuracy as per AS DIN 12700 ISO 385.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
113.223.01	10	0.05	0.02
113.223.02	25	0.10	0.05
113.223.03	50	0.10	0.05
113.223.04	100	0.20	0.10

Burette with Screw Type Needle Valve PTFE Stopcock.
Burettes meet ASTM E-287 Class A specification
& USP standard with Individual work
certificate, Serially numbered.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
113.220.01	10	0.05	0.02
113.220.02	25	0.10	0.03
113.220.03	50	0.10	0.05

Burette with Straight Bore PTFE Key stopcock

Accuracy as per AS DIN 12700 ISO 385
(Waiting time 30-seconds).

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
114.202.01	10	0.05	0.020
114.202.02	25	0.10	0.050
114.202.03	50	0.10	0.050
114.202.04	100	0.20	0.100

Burette with Straight Bore PTFE Key stopcock

Schell Bach Stripe. Accuracy as per AS DIN 12700 ISO 385
With Lot Certificate (Waiting time 30-seconds).

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
114.202.04A	10	0.05	0.020
114.202.05A	25	0.10	0.050
114.202.06A	50	0.10	0.050
114.202.07A	100	0.20	0.100

Burette with Straight Bore PTFE Key stopcock

Schell Bach Stripe. Accuracy as per AS DIN 12700 ISO 385
With Individual Work Certificate, Serially numbered,
(Waiting time 30-seconds).

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
114.223.04A	10	0.05	0.020
114.223.05A	25	0.10	0.050
114.223.06A	50	0.10	0.050
114.223.07A	100	0.20	0.100

Burette with Straight Bore PTFE Key stopcock

Accuracy as per AS DIN 12700, ISO 385
With LOT Certificate (Waiting time 30 Seconds)

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
115.202.01	10	0.05	0.02
115.202.02	25	0.10	0.05
115.202.03	50	0.10	0.05
115.202.04	100	0.20	0.10

Burette with Straight Bore PTFE Key stopcock

Accuracy as per AS DIN 12700, ISO 385
Individual Work Certificate, Serially numbered,
(Waiting time 30 Seconds)

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
115.223.01	10	0.05	0.02
115.223.02	25	0.10	0.05
115.223.03	50	0.10	0.05
115.223.04	100	0.20	0.10

Burette with Straight Bore PTFE Key stopcock

Burettes meet ASTM E-287
Class A specification & USP Standard
with Individual Work Certificate, Serially numbered.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
115.220.01	10	0.05	0.02
115.220.02	25	0.10	0.03
115.220.03	50	0.10	0.05

Burette Lengths without Stopcocks.
Accuracy as per AS DIN 12700 ISO 385

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
116.202.01	10	0.05	0.02
116.202.02	25	0.10	0.05
116.202.03	50	0.10	0.05
116.202.04	100	0.20	0.10

Burette, Automatic Zero, mounted on Reservoir with Screw type PTFE Needle Valve Stopcock and Rubber bellow, Accuracy as per class AS DIN conformity certified.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
118.202.01	10	0.05	0.02
118.202.02	25	0.10	0.05
118.202.03	50	0.10	0.05
118.202.04	100	0.20	0.10

Burette, Automatic Zero, mounted on Reservoir with PTFE Key Stopcock, Rubber bellow, Accuracy as per class AS DIN Conformity Certified

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
120.202.01	10	0.05	0.02
120.202.02	25	0.10	0.05
120.202.03	50	0.10	0.05
120.202.04	100	0.20	0.10

Pipette Volumetric, with one mark,
Accuracy as per class AS DIN 12691, ISO 648
(waiting time 15 seconds)

Cat. No.	Cap. ml.	Tolerance (±ml)	Colour code
122.202.01	1	0.006	Blue
122.202.02	2	0.010	Orange
122.202.03	5	0.015	White
122.202.04	10	0.020	Red
122.202.05	20	0.030	Yellow
122.202.06	25	0.030	Blue
122.202.07	50	0.050	Red
122.202.08	100	0.080	Yellow

Pipette Volumetric, with one mark,
Accuracy as per class AS DIN 12691 ISO 648
(waiting time 15 seconds) With LOT Certificate

Cat. No.	Cap. ml.	Tolerance (±ml)	Colour code
123.202.01	1	0.006	Blue
123.202.02	2	0.010	Orange
123.202.03	5	0.015	White
123.202.04	10	0.020	Red
123.202.05	20	0.030	Yellow
123.202.06	25	0.030	Blue
123.202.07	50	0.050	Red
123.202.08	100	0.080	Yellow

Pipette Volumetric, with one mark,
Accuracy as per class AS DIN 12691 ISO 648
(waiting time 15 seconds)
With Individual Work Certificate, Serially numbered.

Cat. No.	Cap. ml.	Tolerance (±ml)	Colour code
123.223.01	1	0.006	Blue
123.223.02	2	0.010	Orange
123.223.03	5	0.015	White
123.223.04	10	0.020	Red
123.223.05	20	0.030	Yellow
123.223.06	25	0.030	Blue
123.223.07	50	0.050	Red
123.223.08	100	0.080	Yellow

Graduated Pipette for partial outflow
class AS DIN 12697 ISO 835
(waiting time 15 seconds).

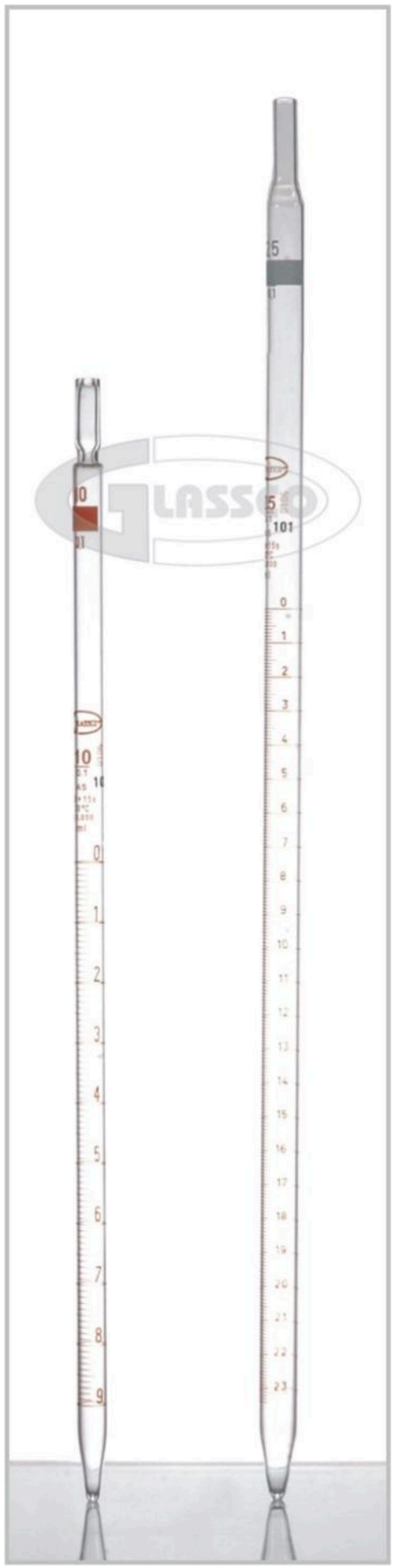
Cat. No.	Cap. ml.	Tolerance (±ml)	Colour code
124.202.01	1.0	0.006	Yellow
124.202.02	2.0	0.010	Black
124.202.03	5.0	0.030	Red
124.202.04	10.0	0.050	Orange
124.202.06	25.0	0.100	White

Graduated Pipettes,
Class AS Din 12697, ISO 835,
(Waiting time 15 seconds), with LOT Certificate

Cat. No.	Cap. ml.	Tolerance (±ml)	Colour code
125.202.01	1.0	0.006	Yellow
125.202.02	2.0	0.010	Black
125.202.03	5.0	0.030	Red
125.202.04	10.0	0.050	Orange
125.202.06	25.0	0.100	White

Graduated Pipette Class AS DIN 12697, ISO835
(waiting time 15 seconds),
with Individual Work Certificate, Serially numbered.

Cat. No.	Cap. ml.	Tolerance (±ml)	Colour code
125.223.01	1.0	0.006	Yellow
125.223.02	2.0	0.010	Black
125.223.03	5.0	0.030	Red
125.223.04	10.0	0.050	Orange
125.223.06	25.0	0.100	White



Volumetric Flask with one Graduation mark and stopper made of Polyethelene ISO 1042, DIN 12664, Class A.

Cat. No.	Cap. ml.	Tolerance (±ml)	N/S
129.202.01	5	0.025	10/19
129.202.02	10	0.025	10/19
129.202.02A	20	0.040	10/19
129.202.03	25	0.040	10/19
129.202.04	50	0.060	12/21
129.202.05	100	0.100	14/23
129.202.06	200	0.150	14/23
129.202.07	250	0.150	14/23
129.202.08	500	0.250	19/26
129.202.09	1000	0.400	24/29
129.202.10	2000	0.600	29/32

Volumetric Flask with one graduation mark & stopper made of polythelene ISO 1042, DIN 12664, Class A. With LOT Certificate.

Cat. No.	Cap. ml.	Tolerance (±ml)	N/S
130.202.01	5	0.025	10/19
130.202.02	10	0.025	10/19
130.202.02A	20	0.040	10/19
130.202.03	25	0.040	10/19
130.202.04	50	0.060	12/21
130.202.05	100	0.100	14/23
130.202.06	200	0.150	14/23
130.202.07	250	0.150	14/23
130.202.08	500	0.250	19/26
130.202.09	1000	0.400	24/29
130.202.10	2000	0.600	29/32

Volumetric Flask with one graduation mark & stopper made of polythelene ISO 1042, DIN 12664, Class A. With Individual Work Certificate, Serially numbered.

Cat. No.	Cap. ml.	Tolerance (±ml)	N/S
130.223.01	5	0.025	10/19
130.223.02	10	0.025	10/19
130.223.02A	20	0.040	10/19
130.223.03	25	0.040	10/19
130.223.04	50	0.060	12/21
130.223.05	100	0.100	14/23
130.223.06	200	0.150	14/23
130.223.07	250	0.150	14/23
130.223.08	500	0.250	19/26
130.223.09	1000	0.400	24/29
130.223.10	2000	0.600	29/32

Volumetric Flask with one Graduation Mark & Stopper made of polythelene, Vol. Flasks meet ASTM E-228 Class A specifications & USP standards, Flasks are Serially numbered and supplied with Individual Work Certificate.

Cat. No.	Cap. ml.	Tolerance (±ml)	N/S
130.220.01	5	0.02	10/19
130.220.02	10	0.02	10/19
130.220.02A	20	0.03	10/19
130.220.03	25	0.03	10/19
130.220.04	50	0.05	12/21
130.220.05	100	0.08	14/23
130.220.06	200	0.10	14/23
130.220.07	250	0.12	14/23
130.220.08	500	0.20	19/26
130.220.09	1000	0.30	24/29
130.220.10	2000	0.5 0	29/32

Volumetric Flask Amber with one Graduation mark and stopper made of Polythelene ISO 1042 DIN 12664. Accuracy as per class A. With LOT Certificate

Cat. No.	Cap. ml.	Tolerance (±ml)	N/S
130.202.01A	5	0.025	10/19
130.202.02AB	10	0.025	10/19
130.202.03A	20	0.040	10/19
130.202.04A	25	0.040	10/19
130.202.05A	50	0.060	12/21
130.202.06A	100	0.100	14/23
130.202.07A	200	0.150	14/23
130.202.08A	250	0.150	14/23
130.202.09A	500	0.250	19/26
130.202.010A	1000	0.400	24/29
130.202.011A	2000	0.600	29/32

Volumetric Flask Amber with one Graduation mark and stopper made of Polythelene ISO 1042 DIN 12664. Accuracy as per class A.
With Individual Work Certificate & Serially numbered.

Cat. No.	Cap. ml.	Tolerance (±ml)	N/S
130.223.01A	5	0.025	10/19
130.223.02AB	10	0.025	10/19
130.223.03A	20	0.040	10/19
130.223.04A	25	0.040	10/19
130.223.05A	50	0.060	12/21
130.223.06A	100	0.100	14/23
130.223.07A	200	0.150	14/23
130.223.08A	250	0.150	14/23
130.223.09A	500	0.250	19/26
130.223.010A	1000	0.400	24/29
130.223.011A	2000	0.600	29/32

Volumetric Flasks

Volumetric Flask Amber, with One Graduation mark and Stopper made of Polythelene, Flasks meet ASTM E-228 Class A Specifications & USP standard, Serially numbered & supplied with Individual Work Certificate

Cat. No.	Cap. ml.	Tolerance (±ml)	N/S
130.220.01A	5	0.02	10/19
130.220.02AB	10	0.02	10/19
130.220.03A	20	0.03	10/19
130.220.04A	25	0.03	10/19
130.220.05A	50	0.05	12/21
130.220.06A	100	0.08	14/23
130.220.07A	200	0.10	14/23
130.220.08A	250	0.12	14/23
130.220.09A	500	0.20	19/26
130.220.010A	1000	0.30	24/29
130.220.011A	2000	0.50	29/32

Volumetric Flask With Rim Without Stopper ISO 1042, DIN 12664, Class A.

Cat. No.	Cap. ml.	Tolerance (±ml)
131.202.01	5	0.025
131.202.02	10	0.025
131.202.03	20	0.040
131.202.04	25	0.040
131.202.05	50	0.060
131.202.06	100	0.100
131.202.07	200	0.150
131.202.08	250	0.150
131.202.09	500	0.250
131.202.10	1000	0.400
131.202.11	2000	0.600

Volumetric Flask With Rim Without Stopper ISO 1042, DIN 12664, Class A. With LOT Certificate

Cat. No.	Cap. ml.	Tolerance (±ml)
132.202.01	5	0.025
132.202.02	10	0.025
132.202.03	20	0.040
132.202.04	25	0.040
132.202.05	50	0.060
132.202.06	100	0.100
132.202.07	200	0.150
132.202.08	250	0.150
132.202.09	500	0.250
132.202.10	1000	0.400
132.202.11	2000	0.600

Measuring Cylinders, with plastic bases and protection collar Class B

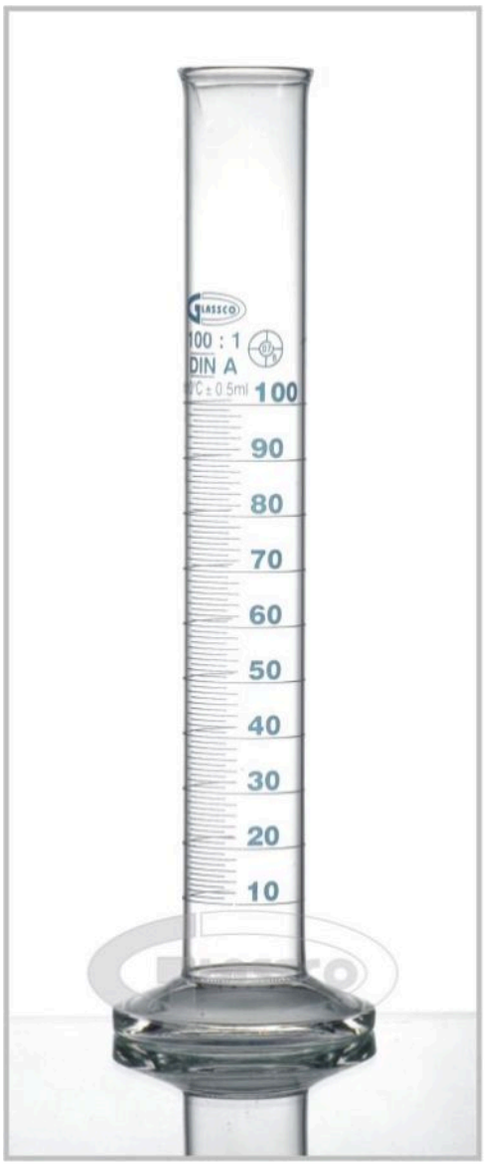
Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
137.202.01	5	0.1	0.1
137.202.02	10	0.2	0.2
137.202.03	25	0.5	0.5
137.202.04	50	1.0	1.0
137.202.05	100	1.0	1.0
137.202.06	250	2.0	2.0

Measuring Cylinders, with spout & Round Base Class A DIN 12680, ISO 4788

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
138.202.01	5	0.1	0.05
138.202.02	10	0.2	0.10
138.202.03	25	0.5	0.25
138.202.04	50	1.0	0.50
138.202.05	100	1.0	0.50
138.202.06	250	2.0	1.00
138.202.07	500	5.0	2.50
138.202.08	1000	10.0	5.00
138.202.09	2000	20.0	10.0

Measuring Cylinders, with spout & Hexagonal Base Class A DIN 12680, ISO 4788

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
138.202.01A	10	0.2	0.10
138.202.02A	25	0.5	0.25
138.202.03A	50	1.0	0.50
138.202.04A	100	1.0	0.50
138.202.05A	250	2.0	1.00
138.202.06A	500	5.0	2.50
138.202.07A	1000	10.0	5.00
138.202.08A	2000	20.0	10.00

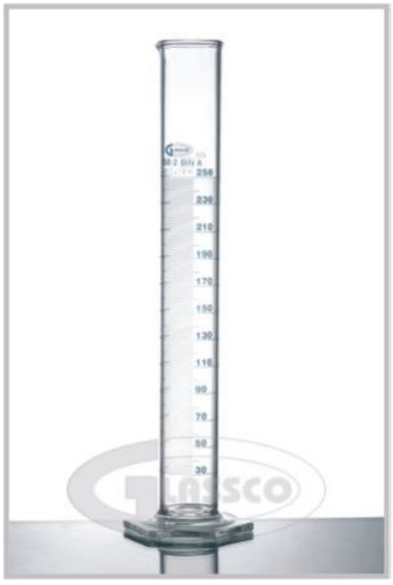


Measuring Cylinders, with spout & Round Base Class A DIN 12680, With LOT Certificate

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
139.202.01	5	0.1	0.05
139.202.02	10	0.2	0.10
139.202.03	25	0.5	0.25
139.202.04	50	1.0	0.50
139.202.05	100	1.0	0.50
139.202.06	250	2.0	1.00
139.202.07	500	5.0	2.50
139.202.08	1000	10.0	5.00
139.202.09	2000	20.0	10.00

Measuring Cylinders, with spout & Round Base Class A DIN 12680, With Individual Certificate, Serially numbered.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
139.223.01	5	0.1	0.05
139.223.02	10	0.2	0.10
139.223.03	25	0.5	0.25
139.223.04	50	1.0	0.50
139.223.05	100	1.0	0.50
139.223.06	250	2.0	1.00
139.223.07	500	5.0	2.50
139.223.08	1000	10.0	5.00
139.223.09	2000	20.0	10.00

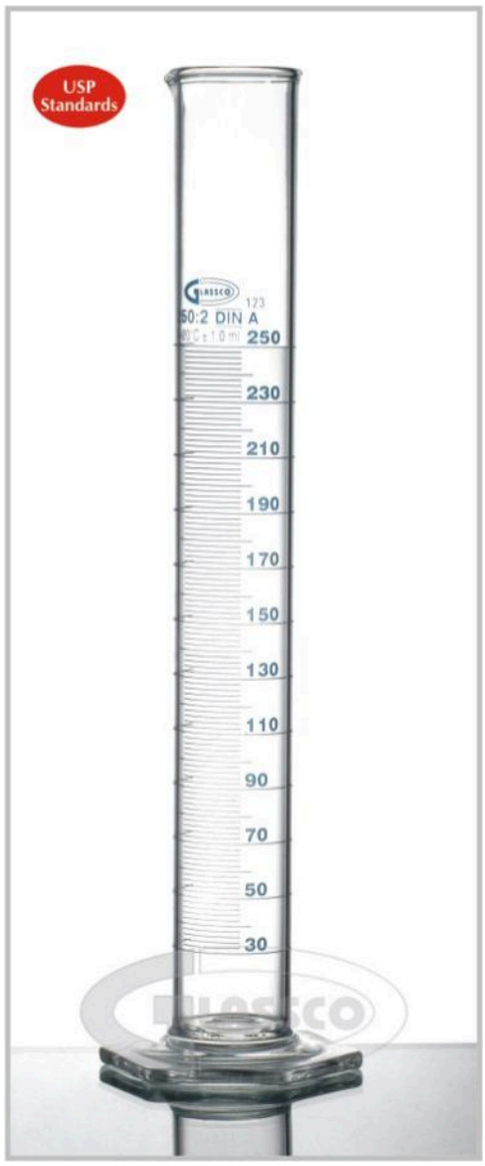


Measuring Cylinders, with spout & Hexagonal Base Class A DIN 12680, With LOT Certificate

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
139.202.01A	10	0.2	0.10
139.202.02A	25	0.5	0.25
139.202.03A	50	1.0	0.50
139.202.04A	100	1.0	0.50
139.202.05A	250	2.0	1.00
139.202.06A	500	5.0	2.50
139.202.07A	1000	10.0	5.00
139.202.08A	2000	20.0	10.00

Measuring Cylinders, with spout & Hexagonal Base Class A DIN 12680, With Individual Work Certificate , Serially numbered.

Cat. No.	Cap. ml.	Sub. Div. ml.	Tolerance (±ml)
139.223.01A	10	0.2	0.10
139.223.02A	25	0.5	0.25
139.223.03A	50	1.0	0.50
139.223.04A	100	1.0	0.50
139.223.05A	250	2.0	1.00
139.223.06A	500	5.0	2.50
139.223.07A	1000	10.0	5.00
139.223.08A	2000	20.0	10.00

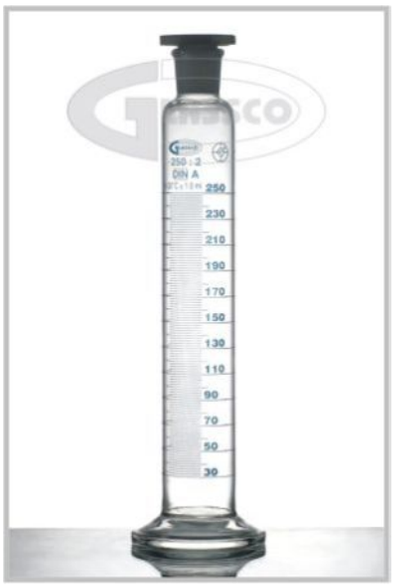


Measuring Cylinders, with Spout & Hexagonal Base, Serially numbered with Individual Work Certificate as per USP Standards.

Cat. No.	Capacity	Sub. Div. ml.	Tolerance (±ml)
139.220.01A	10	0.2	0.10
139.220.02A	25	0.5	0.25
139.220.03A	50	1.0	0.50
139.220.04A	100	1.0	0.50
139.220.05A	250	2.0	1.00
139.220.06A	500	5.0	2.50
139.220.07A	1000	10.0	5.00
139.220.08A	2000	20.0	10.00

Measuring Cylinders, Round Base with interchangeable Polythelene stopper, Class A DIN 12685, ISO 4788

Cat. No.	Capacity	Sub. Div. ml.	Tolerance (±ml)
140.202.02	10	0.2	0.10
140.202.03	25	0.5	0.25
140.202.04	50	1.0	0.50
140.202.05	100	1.0	0.50
140.202.06	250	2.0	1.00
140.202.07	500	5.0	2.50
140.202.08	1000	10.0	5.00
140.202.09	2000	10.0	10.0



Measuring Cylinders, Round Base with Interchangeable Polythelene stopper, Class A DIN 12685, ISO 4788 (With LOT Certificate)

Cat. No.	Capacity	Sub. Div. (ml)	Tolerance (±ml)
141.202.02	10	0.2	0.10
141.202.03	25	0.5	0.25
141.202.04	50	1.0	0.50
141.202.05	100	1.0	0.50
141.202.06	250	2.0	1.00
141.202.07	500	5.0	2.50
141.202.08	1000	10.0	5.00
141.202.09	2000	20.0	10.00

Measuring Cylinders, Round Base with Interchangeable Polythelene stopper, Class A DIN 12685, ISO 4788, Serially numbered with Individual Work Certificate.

Cat. No.	Capacity	Sub. Div. (ml)	Tolerance (±ml)
141.223.02	10	0.2	0.10
141.223.03	25	0.5	0.25
141.223.04	50	1.0	0.50
141.223.05	100	1.0	0.50
141.223.06	250	2.0	1.00
141.223.07	500	5.0	2.50
141.223.08	1000	10.0	5.00
141.223.09	2000	20.0	10.00

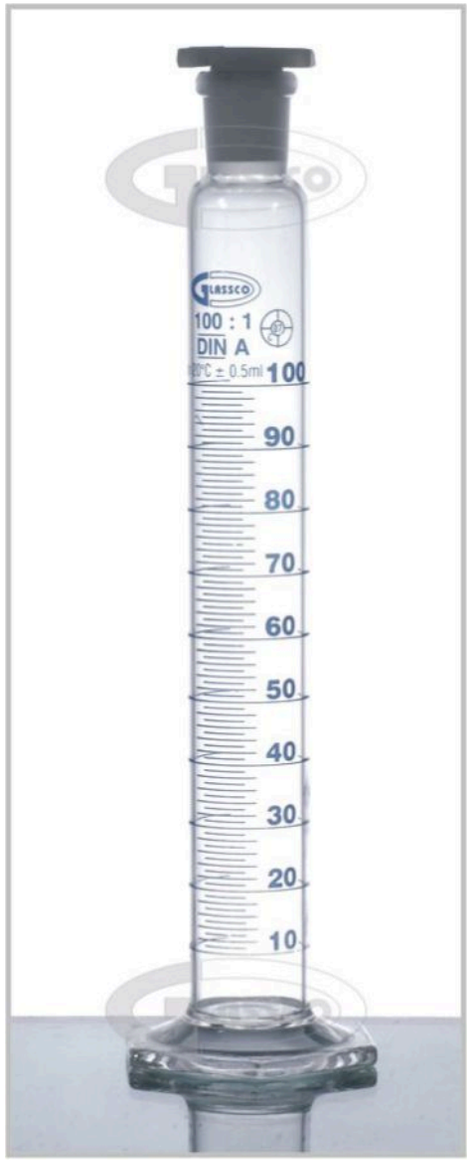
Measuring Cylinder Hexagonal Base with Polyethylene stopper, Class A DIN 12685, ISO 4788.

Cat. No.	Capacity	Sub. Div. (ml)	Tolerance (±ml)
142.202.01	10	0.2	0.10
142.202.02	25	0.5	0.25
142.202.03	50	1.0	0.50
142.202.04	100	1.0	0.50
142.202.05	250	2.0	1.00
142.202.06	500	5.0	2.50
142.202.07	1000	10.0	5.00
142.202.08	2000	20.0	10.00

Measuring Cylinder Hexagonal Base

with Polyethylene stopper, Class A DIN 12685, ISO 4788
(With LOT Certificate)

Cat. No.	Capacity	Sub. Div. (ml)	Tolerance (±ml)
142.202.01A	10	0.2	0.10
142.202.02A	25	0.5	0.25
142.202.03A	50	1.0	0.50
142.202.04A	100	1.0	0.50
142.202.05A	250	2.0	1.00
142.202.06A	500	5.0	2.50
142.202.07A	1000	10.0	5.00
142.202.08A	2000	20.0	10.00



Measuring Cylinder Hexagonal Base

with Polyethylene stopper, Class A DIN 12685, ISO 4788
Serially numbered with Individual Work Certificate

Cat. No.	Capacity	Sub. Div. (ml)	Tolerance (±ml)
142.223.01	10	0.2	0.10
142.223.02	25	0.5	0.25
142.223.03	50	1.0	0.50
142.223.04	100	1.0	0.50
142.223.05	250	2.0	1.00
142.223.06	500	5.0	2.50
142.223.07	1000	10.0	5.00
142.223.08	2000	20.0	10.00

Nessler Cylinder, for colour comparison
class A, Graduated.

Cat. No.	Capacity	Sub. Div. ml.	Tolerance + ml.
143.202.01	50	25 & 50	0.4
143.202.02	100	50 & 100	0.8

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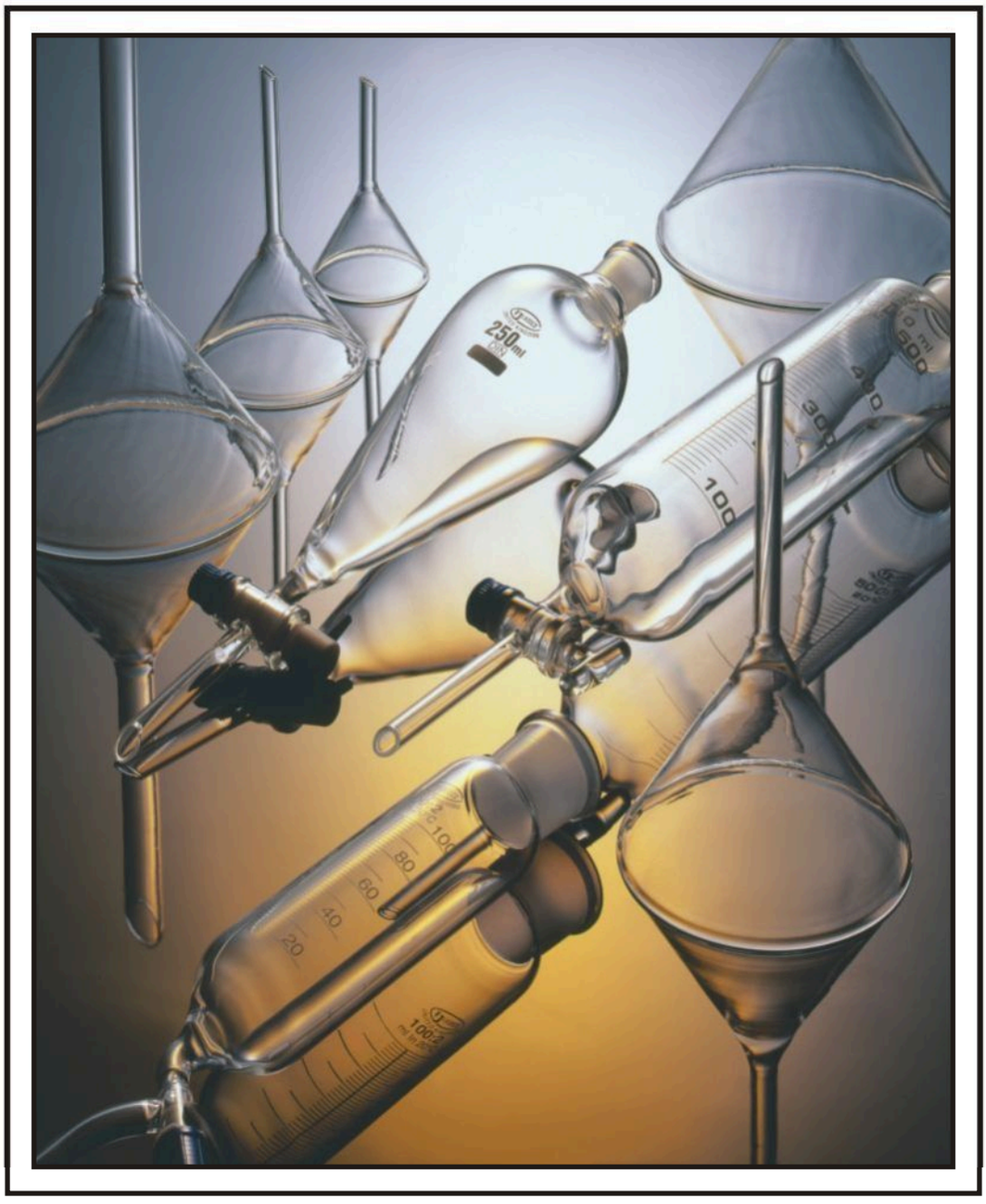

SEPARATING FUNNELS

Separating Funnels, with Glass stopcock, & Polythelene Stopper, Squibb shape

Cat. No.	Capacity	N/S
147.202.02	50	19/26
147.202.03	100	19/26
147.202.04	250	19/26
147.202.05	500	29/32
147.202.06	1000	29/32
147.202.07	2000	29/32

Separating Funnels, Graduated, with Glass stopcock, & Polythelene Stopper, Squibb shape.

Cat. No.	Capacity	N/S
147.209.02	50	19/26
147.209.03	100	19/26
147.209.04	250	19/26
147.209.05	500	29/32
147.209.06	1000	29/32
147.209.07	2000	29/32

Separating Funnels, with PTFE Needle Valve & Polythelene stopper, Squibb shape.

Cat. No.	Capacity	N/S
148.202.02	50	19/26
148.202.03	100	19/26
148.202.04	250	19/26
148.202.05	500	29/32
148.202.06	1000	29/32
148.202.07	2000	29/32

Separating Funnels, Graduated,
with PTFE Needle Valve &
Polythelene stopper, Squibb shape.

Cat. No.	Capacity	N/S
148.209.02	50	19/26
148.209.03	100	19/26
148.209.04	250	19/26
148.209.05	500	29/32
148.209.06	1000	29/32
148.209.07	2000	29/32

Separating Funnels, with PTFE Key,
Stopcock & Polythelene stopper, Squibb shape.

Cat. No.	Capacity	N/S
149.202.02	50	19/26
149.202.03	100	19/26
149.202.04	250	19/26
149.202.05	500	29/32
149.202.06	1000	29/32
149.202.07	2000	29/32

Separating Funnels, Graduated, with PTFE Key,
Stopcock & Polythelene stopper, Squibb shape.

Cat. No.	Capacity	N/S
149.209.02	50	19/26
149.209.03	100	19/26
149.209.04	250	19/26
149.209.05	500	29/32
149.209.06	1000	29/32
149.209.07	2000	29/32

Separating Funnels, with Glass Stopcock & Polythelene stopper, Pear shape.

Cat. No.	Capacity	N/S
150.202.02	50	19/26
150.202.03	100	19/26
150.202.04	250	19/26
150.202.05	500	29/32
150.202.06	1000	29/32
150.202.07	2000	29/32

Separating Funnels, with PTFE Needle Valve Stopcock & Polythelene stopper, Pear shape.

Cat. No.	Capacity	N/S
151.202.02	50	19/26
151.202.03	100	19/26
151.202.04	250	19/26
151.202.05	500	29/32
151.202.06	1000	29/32
151.202.07	2000	29/32

Separating Funnels, with PTFE Key, Stopcock & Polythelene stopper, Pear shape.

Cat. No.	Capacity	N/S
152.202.02	50	19/26
152.202.03	100	19/26
152.202.04	250	19/26
152.202.05	500	29/32
152.202.06	1000	29/32
152.202.07	2000	29/32

Dropping Funnels, Cylindrical with Polythelene Stopper & Glass Stopcock,

Cat. No.	Capacity	N/S
153.202.02	50	19/26
153.202.03	100	19/26
153.202.04	250	29/32
153.202.05	500	29/32
153.202.06	1000	29/32

Dropping Funnels, Cylindrical Graduated with Polythelene Stopper and Glass Stopcock.

Cat. No.	Capacity	N/S
154.202.02	50	19/26
154.202.03	100	19/26
154.202.04	250	29/32
154.202.05	500	29/32
154.202.06	1000	29/32

Dropping Funnels, Cylindrical with Polythelene Stopper & PTFE Needle Valve Stopcock

Cat. No.	Capacity	N/S
155.202.02	50	19/26
155.202.03	100	19/26
155.202.04	250	29/32
155.202.05	500	29/32
155.202.06	1000	29/32

Dropping Funnels, Cylindrical Graduated with Rotaflow Stopcock, & Polythelene Stopper.

Cat. No.	Capacity	N/S
156.202.01	25	14/23
156.202.02	50	19/26
156.202.03	100	19/26
156.202.04	250	29/32
156.202.05	500	29/32
156.202.06	1000	29/32

Dropping Funnels, Cylindrical with PTFE key & Polythelene Stopper.

Cat. No.	Capacity	N/S
157.202.01	25	14/23
157.202.02	50	19/26
157.202.03	100	19/26
157.202.04	250	29/32
157.202.05	500	29/32
157.202.06	1000	29/32

Dropping Funnels, Cylindrical Graduated with PTFE key & Polythelene Stopper.

Cat. No.	Capacity	N/S
158.202.01	25	14/23
158.202.02	50	19/26
158.202.03	100	19/26
158.202.04	250	29/32
158.202.05	500	29/32
158.202.06	1000	29/32

Separating Funnel Gilson with Glass stopcock.

Cat. No.	Capacity	N/S
159.202.01	50	19/26
159.202.02	100	19/26
159.202.03	250	29/32
159.202.04	500	29/32
159.202.05	1000	29/32
159.202.06	2000	29/32

Separating Funnel Gilson with PTFE Key stopcock.

Cat. No.	Capacity	N/S
160.202.01	50	19/26
160.202.02	100	19/26
160.202.03	250	29/32
160.202.04	500	29/32
160.202.05	1000	29/32
160.202.06	2000	29/32

Separating Funnels, Pear shape with socket,& Glass stopcock, with cone & with stopper.

Cat. No.	Capacity ml	Socket	Cone
162.202.02	50	14/23	14/23
162.202.03	50	19/26	19/26
162.202.04	100	14/23	14/23
162.202.05	100	19/26	19/26
162.202.06	250	14/23	14/23
162.202.07	250	19/26	19/26
162.202.08	500	19/26	19/26
162.202.09	500	24/29	24/29
162.202.10	1000	19/26	19/26
162.202.11	1000	24/29	24/29

Seperating Funnels, Pear shape with Socket, & PTFE Needle Valve stopcock, with cone & with stopper.

Cat. No.	Capacity ml	Socket	Cone
163.202.02	50	14/23	14/23
163.202.03	50	19/26	19/26
163.202.04	100	14/23	14/23
163.202.05	100	19/26	19/26
163.202.06	250	14/23	14/23
163.202.07	250	19/26	19/26
163.202.08	500	19/26	19/26
163.202.09	500	24/29	24/29
163.202.10	1000	19/26	19/26
163.202.11	1000	24/29	24/29

Separating Funnels, Pear shape with socket, & Screw Type PTFE Key stopcock, with cone & with stopper.

Cat. No.	Capacity ml	Socket	Cone
164.202.02	50	14/23	14/23
164.202.03	50	19/26	19/26
164.202.04	100	14/23	14/23
164.202.05	100	19/26	19/26
164.202.06	250	14/23	14/23
164.202.07	250	19/26	19/26
164.202.08	500	19/26	19/26
164.202.09	500	24/29	24/29
164.202.10	1000	19/26	19/26
164.202.11	1000	24/29	24/29

Dropping Funnels, Cylindrical, with Socket & Glass Stopcock Stem with cone & with Stopper.

Cat. No.	Capacity ml	Socket	Cone
165.202.02	50	14/23	14/23
165.202.03	100	14/23	14/23
165.202.04	100	19/26	19/26
165.202.05	250	19/26	19/26
165.202.06	500	19/26	19/26
165.202.07	1000	19/26	19/26

Dropping Funnels, Cylindrical,
with Socket & PTFE Needle Valve Stopcock, Stem with cone & with Stopper.

Cat. No.	Capacity ml	Socket	Cone
166.202.02	50	14/23	14/23
166.202.03	100	14/23	14/23
166.202.04	100	19/26	19/26
166.202.05	250	19/26	19/26
166.202.06	500	19/26	19/26
166.202.07	1000	19/26	19/26

Dropping Funnels, Cylindrical, with Socket, Screw Type PTFE Key Stopcock, Stem with cone but without Stopper.

Cat. No.	Capacity ml	Socket	Cone
167.202.02	50	14/23	14/23
167.202.03	100	14/23	14/23
167.202.04	100	19/26	19/26
167.202.05	250	19/26	19/26
167.202.06	500	19/26	19/26
167.202.07	1000	19/26	19/26

Pressure Equalising Funnels, Cylindrical,
with Socket, Glass Stopcock and stem with cone.

Cat. No.	Capacity ml	Socket	Cone
168.202.01	50	14/23	14/23
168.202.02	100	19/26	19/26
168.202.03	250	19/26	19/26
168.202.04	250	24/29	24/29
168.202.05	500	19/26	19/26
168.202.06	500	24/29	24/29

Pressure Equalising Funnels, Cylindrical, with Socket & PTFE Key Stopcock and stem with cone.

Cat. No.	Capacity ml	Socket	Cone
169.202.01	50	14/23	14/23
169.202.02	100	19/26	19/26
169.202.03	250	19/26	19/26
169.202.04	250	24/29	24/29
169.202.05	500	19/26	19/26
169.202.06	500	24/29	24/29

Pressure Equalising Funnels, Pear Shape with Socket, Glass Stopcock & stem with cone.

Cat. No.	Capacity ml	Socket	Cone
170.202.01	50	14/23	14/23
170.202.02	100	19/26	19/26
170.202.03	250	19/26	19/26
170.202.04	250	24/29	24/29
170.202.05	500	19/26	19/26
170.202.06	500	24/29	24/29

Pressure Equalising Funnels, Cylindrical, with Socket & PTFE Key Stopcock and stem with cone.

Cat. No.	Capacity ml	Socket	Cone
171.202.01	50	14/23	14/23
171.202.02	100	19/26	19/26
171.202.03	250	19/26	19/26
171.202.04	250	24/29	24/29
171.202.05	500	19/26	19/26
171.202.06	500	24/29	24/29

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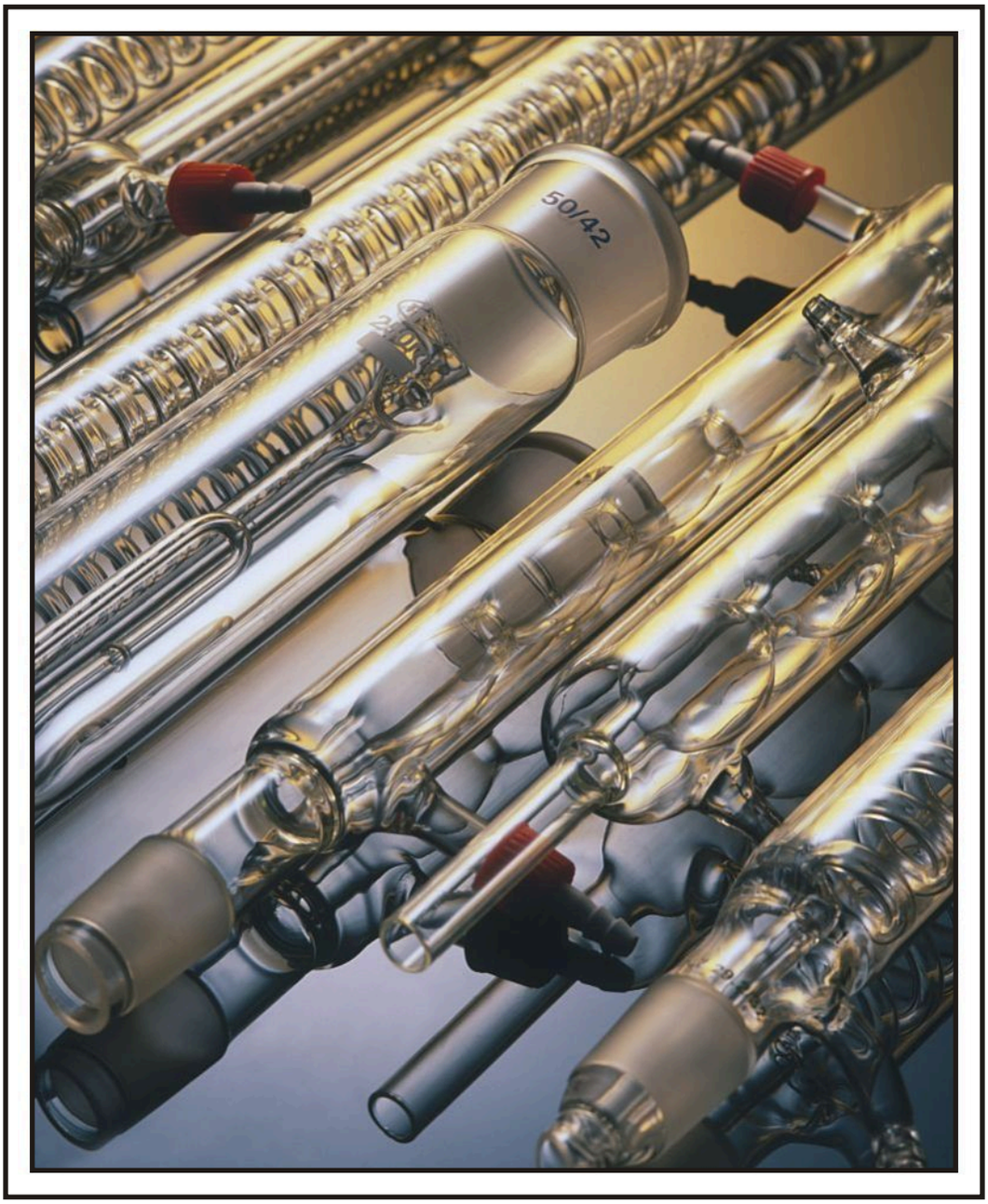

CONDENSERS / ASSEMBLIES

Air Condencers

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

Liebig Condensers

Cat. No.	Socket	Cone	Effective Length (mm.)
182.202.01	14/23	14/23	160
182.202.01A	19/26	19/26	160
182.202.02	19/26	19/26	250
182.202.03	24/29	24/29	250
182.202.04	19/26	19/26	300
182.202.05	24/29	24/29	300
182.202.06	29/32	29/32	300
182.202.10	24/29	24/29	400
182.202.11	29/32	29/32	400

Coil Condensers, Graham, Coiled Distillate Type

Cat. No.	Socket	Cone	Effective Length (mm.)
183.202.01	14/23	14/23	160
183.202.01A	19/26	19/26	160
183.202.02	24/29	24/29	160
183.202.03	19/26	19/26	250
183.202.04	24/29	24/29	250
183.202.04A	29/32	29/32	250
183.202.05	24/29	24/29	300
183.202.06	29/32	29/32	300
183.202.07	29/32	29/32	400

Allihn Condensers (Bulb Condencer)

Cat. No.	Socket	Cone	Effective Length (mm.)
190.202.05	14/23	14/23	160
190.202.06	19/26	19/26	160
190.202.07	14/23	14/23	250
190.202.08	19/26	19/26	250
190.202.09	24/29	24/29	250
190.202.10	24/29	24/29	300
190.202.11	29/32	29/32	300
190.202.12	24/29	24/29	400
190.202.13	29/32	29/32	400

Allihin Condenser For Soxhlet

Cat. No.	Cone	Extractor ML
191.202.01	45/40	100-250
191.202.02	60/46	500
191.202.03	71/51	1000

Dimroth Condenser for Soxhlet

Cat. No.	Cone	Extractor ML
192.202.01	45/40	100-250
192.202.02	60/46	500
192.202.03	71/51	1000

29 GU/Organic Chemistry set

This set is ideal for introducing students 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 5 items of Glassware.

Item No.	Components	29 BU/M
1	Pear shaped flask, 50 ml	1
2	Still head	1
3	Liebig condenser	1
4	Screw cap adapter	1
5	Receiver adapter	1

27 GU Organic Chemistry Set

A highly popular set in schools, colleges 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 9 items of Glassware.

Item No.	Components	27 BU/M
1	Pear shaped flask, 50 ml	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 with GP Rotaflo tap	1
8	Stopper	1
9	Thermometer	1

34 GU Organic Chemistr y Set.

For student use in preparative organic chemistry up to the 150 g scale, this includes all the necessary equipment to allow a wide range of preparations to be carried out.
It is also invaluable for industrial laboratories where the among 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., 100 ml	24/29	-
16	Stopper	-	24/29

Soxhlet Extraction Apparatus,

consists of Flask, Extractor and condenser.

Cat. No.	Extractor cap. (ml)	Extractor Socket	Extractor Cone	Flask Cap	Condensor Type
210.202.04	100	45/40	29/32	250	ALLIHIN
210.202.05	150	45/40	29/32	250	ALLIHIN
210.202.06	250	45/40	29/32	500	ALLIHIN
210.202.08	500	60/46	29/32	1000	ALLIHIN
210.202.09	1000	71/55	29/32	2000	ALLIHIN
210.202.12	100	45/40	29/32	250	DIMROTH
210.202.13	150	45/40	29/32	250	DIMROTH
210.202.14	250	45/40	29/32	500	DIMROTH
210.202.15	500	60/46	29/32	1000	DIMROTH
210.202.16	1000	71/55	29/32	2000	DIMROTH

Spare Extractor for Soxhlet Apparatus.

Cat. No.	Capacity (ml)	Socket	Cone
211.202.04	100	45/40	29/32
211.202.05	150	45/40	29/32
211.202.06	250	45/40	29/32
211.202.08	500	60/46	29/32
211.202.09	1000	71/51	29/32

GLASSCO

GENERAL GLASSWARE

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

Cat. No.	Capacity (ml)	D. (mm)	H. (mm)
229.202.01	5	22	30
229.202.02	10	26	35
229.202.03	25	34	50
229.202.04	50	42	60
229.202.05	100	50	70
229.202.06	150	60	80
229.202.07	250	70	95
229.202.08	400	80	110
229.202.09	600	90	125
229.202.10	1000	105	145
229.202.11	2000	132	185

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

Cat. No.	Capacity (ml)	D. (mm)	H. (mm)
230.202.01	25	38	70
230.202.02	50	38	70
230.202.03	100	48	80
230.202.04	150	54	95
230.202.05	250	60	120

Erlenmeyer Flasks, Narrow Neck with graduation DIN 12380, ISO 1773

Cat. No.	Capacity (ml)	D. (mm)	D1. (mm)	H. (mm)
231.202.01	25	42	22	75
231.202.02	50	51	22	90
231.202.03	100	64	22	105
231.202.04	250	85	34	145
231.202.05	500	105	34	180
231.202.06	1000	131	42	220
231.202.07	2000	166	50	280

Erlenmeyer Flasks, Wide Neck with graduation DIN 12385.

Cat. No.	Capacity (ml)	D. (mm)	D1. (mm)	H. (mm)
232.202.01	25	42	31	70
232.202.02	50	51	34	85
232.202.03	100	64	34	105
232.202.04	150	64	34	105
232.202.05	250	85	50	140
232.202.06	300	85	50	140
232.202.07	500	105	50	175
232.202.08	1000	131	50	220
232.202.09	2000	153	72	276

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

Cat. No.	Capacity (ml)	D. (mm)	D1. (mm)	H. (mm)
233.202.01	50	51	26	95
233.202.02	100	64	26	110
233.202.03	250	85	34	144
233.202.04	500	105	34	175
233.202.05	1000	131	42	200
233.202.06	2000	166	42	260

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

Cat. No.	Capacity (ml)	D. (mm)	D1. (mm)	H. (mm)
234.202.01	50	51	34	105
234.202.02	100	64	35	110
234.202.03	250	85	51	145
234.202.04	500	105	50	168
234.202.05	1000	131	50	210
234.202.07	2000	166	76	260

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

Cat. No.	Capacity (ml)	D. (mm)	D1. (mm)	H. (mm)
235.202.01	50	51	22	100
235.202.02	100	64	22	110
235.202.03	250	85	35	140
235.202.04	500	105	34	171
235.202.05	1000	131	42	200
235.202.06	2000	166	42	250

Flask Flat Bottom, wide neck, with beaded rim DIN 12347

Cat. No.	Capacity (ml)	D. (mm)	D1. (mm)	H. (mm)
236.202.01	50	51	35	100
236.202.02	100	64	34	110
236.202.03	250	85	50	140
236.202.04	500	103	50	170
236.202.05	1000	131	50	200
236.202.06	2000	166	50	250

Funnel Filtering, 60° angle with stem.

Cat. No.	Diameter (mm)
238.202.01	25
238.202.02	35
238.202.03	38
238.202.04	40
238.202.05	50
238.202.06	55
238.202.07	65
238.202.08	70
238.202.09	75
238.202.10	80
238.202.11	100
238.202.12	125
238.202.13	150

Funnel Powder

Cat. No.	N/S Size	Approx. Funnel Diameter
238.202.01 P	14/23	45 mm
238.202.02 P	14/23	70 mm
238.202.03 P	29/32	70 mm
238.202.04 P	29/32	80 mm
238.202.05 P	14/23	100 mm
238.202.06 P	29/32	100 mm

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

Cat. No.	Capacity
245.202.01	3 ml
245.202.02	6 ml
245.202.03	10 ml

Dishes, Crystallizing, without Spout

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

Dishes, Crystallizing, with Spout

Cat. No.	O.D. x Height (mm)
246.202.1S	40 x 25
246.202.2S	50 x 30
246.202.3S	60 x 35
246.202.4S	70 x 40
246.202.5S	80 x 45
246.202.6S	95 x 55

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

Cat. No.	I.D. (mm)
249.202.01	150
249.202.02	210
249.202.03	250
249.202.04	300

Dessicator with Lid, Plain,
Die pressed, Neutral Glass
with Porcelain perforated
plate and glass sleeve

Cat. No.	I.D. (mm)
250.202.01	150
250.202.02	210
250.202.03	250
250.202.04	300

Porosity Grades and their General Use

Porosity Grade	Pore Size	General Use
G-0	150-250	Coarse Filtration, Filtration, Gas dispersion and support for other filter material.
G-1	90-150	Coarse Precipitate, Filtration, Gas dispersion, Coarse grain material filtration.
G-2	40-90	Medium and Crystalline precipitate filtration, medium filtration and washing of glass.
G-3	15-40	Fine Gas filtration and dispersion, mercury filtration, fine grain material filtration, collection of fine precipitates, Analytical work with medium precipitates.
G-4	5-15	Valves for mercury collection of very fine precipitates. Analytical work with fine precipitates.

Crucible, Gooch type with Sintered Disc of porosity G-0 or G-1 or G-2 or G-3 or G-4.

Cat. No.	Capacity (ml)
255.202.01	15
255.202.02	30
255.202.03	50

Buchner Funnel, with Sintered Disc of Porosity G-0 or G-1 or G-2 or G-3 or G-4, Plain stem.

Cat. No.	Capacity (ml)	Disc Dia (mm)
256.202.01	35	30
256.202.02	80	40
256.202.03	200	65
256.202.04	500	90
256.202.05	1000	120

Buchner Funnel, with Sintered Disc of Porosity G-0 or G-1 or G-2 or G-3 or G-4, cone at stem.

Cat. No.	Capacity (ml)	Disc Dia (mm)	Cone
257.202.01	35	30	14/23 or 19/26
257.202.02	80	40	14/23 or 19/26
257.202.03	200	65	19/26 or 24/29
257.202.04	500	90	19/26 or 24/29 or 29/32
257.202.05	1000	120	19/26 or 24/29 or 29/32

Cat. No.	Item
258.202.01	**Funnel Filtration System** for 47 mm Diameter Membranes

Cat. No.	Item
259.202.01	**Funnel Filtration Holder** for 25 mm Membranes

Cat. No.	Accessories
259.245.01	Funnel 15 ml
259.245.02	Sintered Base with Stopper
259.245.03	Clamp
259.245.04	Filter Flask 125ml

Cat. No.	Item
260.202.01	**Funnel Filtration Holder** for 47 mm Membranes

Cat. No.	Accessories
260.245.01	Funnel 300 ml
260.245.02	Sintered Base with Stopper
260.245.03	Clamp
260.245.04	Filter Flask 1000ml

Weighing Bottles, Ground in stopper.

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

Pycnometers to Gay - Lussac, Calibrated

Cat. No.	Capacity (ml)	Tolerance (±ml)
268.202.01	10	1.0
268.202.02	25	2.0
268.202.03	50	3.0
268.202.04	100	3.0

Pycnometers to Gay - Lussac, Uncalibrated

Cat. No.	Capacity (ml)
269.202.01	10
269.202.02	25
269.202.03	50
269.202.04	100

Reagent Bottles, **Narrow Mouth**
Boro 3.3, with Hollow Stopper

Cat. No.	Capacity (ml)
272.202.01	30
272.202.02	60
272.202.03	125
272.202.04	250
272.202.05	500
272.202.06	1000
272.202.07	2000

Reagent Bottles, **Amber**, **Boro 3.3**
with interchangeable hollow stopper.

Cat. No.	Capacity (ml)
273.202.01	30
273.202.02	60
273.202.03	125
273.202.04	250
273.202.05	500
273.202.06	1000
273.202.07	2000

Dropping Bottles, **Boro 3.3** fitted with ground
in interchangeable stopper and rubber teat.

Cat. No.	Capacity (ml)
279.202.01	30
279.202.02	60
279.202.03	120
279.202.04	250

Amber Dropping Bottles, Boro 3.3,
fitted with ground in interchangeable stopper and rubber teat.

Cat. No.	Capacity (ml)
279.229.01	30
279.229.02	60
279.229.03	120
279.229.04	250

Mac-Cartney Bottles,
Complete with Aluminium Cap.

Cat. No.	Capacity (ml)
283.202.01	15
283.202.02	30
283.202.03	60

Head for Gas Bottles

Cat. No.	Capacity
285.202.01	125 ml
285.202.02	250 ml
285.202.03	500 ml

Gas Washing Bottle,

Interchangeable joints

Cat. No.	Capacity (ml)
286.202.01	125
286.202.02	250
286.202.03	500

Sintered Wash Bottles Head

Cat. No.	Capacity
287.202.01	125 ml
287.202.02	250 ml
287.202.03	500 ml

Rotaflow Stopcock, Straight

Cat. No.	Bore Size
299.202.01	0-3
299.202.02	0-6

PTFE Key Stopcock, Straight

Cat. No.	Size	Bore Size
300.202.01	12.5	2.5
300.202.02	14.5	2.5
300.202.03	14.5	4.0
300.202.04	18.8	6.0

Glass Stopcock, Straight

Cat. No.	Size	Bore Size
301.202.01	12.5	2.5
301.202.02	14.5	2.5
301.202.03	14.5	4.0
301.202.04	18.8	6.0

Rotaflow stopcock for Burette

Cat. No.	Bore Size
302.202.01	0-3

PTFE key stopcock for Burrete

Cat. No.	Size	Bore Size
303.202.01	12.5	2.5

Glass key stopcock for Burrete

Cat. No.	Size	Bore Size
304.202.01	12.5	2.5

Rotaflow Stopcock 90°

Cat. No.	Bore Size
305.202.01	0-3
305.202.02	0-6

Rotaflow Stopcock for Automatic Burette

Cat. No.	Capacity (ml)
306.202.01	0-3

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LABORATORY EQUIPMENTS

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