

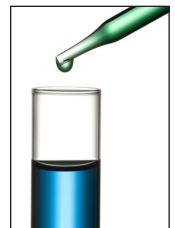


Star Scientific Glass Co.

Star Scientific Glass Co. presents a more user friendly version of its laboratory glass product catalogue. It is our aim to completely satisfy our customers' need and expectations in relation to quality, service and efficiency.

The success of this requires committed and dedicated personnel providing the highest level of quality products and services to our customers. To achieve our assignment we must anticipate and respond to the needs of our customers, helping them fulfill their goals. We are determined to succeed.

LABORATORY GLASS DIVISION



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CARE AND MAINTENANCE

SAFE USE OF GLASSWARE

When heated with proper care Laboratory Glass wares will give long and satisfactory service. The following notes assist users in obtaining the maximum life and performance from their Laboratory Glassware.

HEATING AND COOLING

- Glass may suffer damage in three ways:
- It may break under thermal stress in the 'steady state'
- It may break under sudden heating or cooling.
- Glass if heated beyond certain temperature may acquire a permanent stress on cooling which could cause subsequent failure.

The following suggestions will help in avoiding failures during heating and cooling procedures.

1. During evaporation, never leave vessel unattended. Lower the temperature gradually as the liquid level drops, to avoid dryness condition, otherwise glass vessel may crack or explode.
2. Always use caution when placing heated vessel on a cold or damp surface. Sudden temperature may cause the vessel to break.
3. Always cool vessel slowly to avoid thermal breakage.
4. Never apply heat to badly scratched or etched vessel to prevent chance of breakage.
5. Avoid point source of heating to a vessel and always diffuse it by using a metal gauze or air/water bath. Alternatively ensure uniform heating of the vessel by slow movement of the vessel in relation to the heat source.
6. Uniform heat is critical factor for some chemical reactions. For this adjust large soft flame of Bunsen burner to heat slowly but also more uniformly.
7. Adjust the flame contacts and heat the vessel below the liquid level to avoid breakage of the vessel.
8. Always use anti-bumping devices in the vessel, such as pumice or glass wool when rapid heating of the vessel and contents is required and to prevent internal abrasions of the vessels.
9. Thick walled glassware is best heated with the use of an electric immersion heater and should not be subjected to direct flame or other localised heat source.

10. Do not heat glasswares over electric heaters with open elements to avoid localised stress and chances of breakage.
11. Always ensure that the surface of the hot plate is larger in area than the base of the vessel being heated to prevent uneven heating and glassware breakage.
12. When using electrical appliances always ensure to follow manufacture's instructions.

MIXING AND STIRRING

1. To prevent scratching the inside of a vessel always use a 'policmen' or similar device on stirring rods.
2. When using a glass vessel with a magnetic stirrer always uses a covered follower to prevent abrading the inside of the vessel.
3. Before using glass or metal mechanical stirrer in a glass vessel, predetermine the height of the stirrer to ensure there is no contact between the stirrer blades 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. Always follow safety measures when working with glassware subjected to pressure of vacuum.
2. Never use glassware beyond the recommended safe limit.
3. Gradually apply and release positive and negative pressures and never subject to sudden pressure changes.

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 Separating Funnels should be lubricated frequently to prevent sticking.
4. If a ground joint sticks, the use of penetrating oil will often prove useful in helping separation. Carefully rocking the cone in the socket or gently tapping the socket flange on a wooden surface can generally achieve separation.

5. In using lubricants it is advisable to apply a light coat of grease completely around the upper part of the joint and avoid greasing that part of the joint, which contacts the inner part of the apparatus.
6.
 - (a) Hydrocarbon grease are commonly used on standard taper joints. Most laboratory solvents, including acetone, can easily remove it.
 - (b) For higher temperature or high vacuum applications, silicon grease is often preferred and it can be removed readily with chloroform.
 - (c) For long term reflux or extraction reactions, glycerin grease is suitable and it is soluble in water.
7. Wear heavy protective gloves when inserting glass tubing into a bung. The use of water, oil or glycerol is recommended on both tubing and rubber bung while carrying this operation.

PERSONAL SAFETY

1. To prevent accidents use tongs or asbestos gloves to remove all glassware from heat source.
2. Follow safety measures.
3. Before opening Acid bottle, always flush the outside of bottle with water.
4. All mercury containers should be kept well stoppered. Mercury toxicity is cumulative and element's ability to amalgamate with a number metals is well known.
5. Never taste or smell chemicals for identification and never drink from a beaker.
6. When using concentrated acids, alkalis or potentially hazardous materials use mechanical means for pipeting. Avoid pipeting by mouth.
7. Label all containers before filling. Never fill unlabeled containers and throw away contents of unlabeled containers.
8. Do not look down into a test-tube to avoid any type of accident while test tube being heated or containing chemicals.
9. Do not permit glass-to-metal contact when clamping glassware, and do not excessively tighten the clamps to avoid breakages.
10. Splattering 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 in a well-ventilated area.

12. In working with volatile materials, remember that heat causes expansion and confinement of expansion result in explosion.
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 bottles on glass or ceramic trays having enough volume to hold all the acid in case the bottle breaks. When using perchloric acid, always 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 bacteriological clean or sterile. There must be no trace of grease and safest criteria of cleanliness are the uniform wetting of the glass surface by distilled water. Any prevention of uniform wetting of the surface will introduce errors such as distortion of the meniscus and accuracy of volume.

GENERAL CLEANING

1. Experienced personnel must solely undertake cleaning of glassware, which contain hazardous materials.
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 becomes unduly clouded or dirty or contains coagulated organic matter, it must be cleaned with chromic acid cleaning solution. The dichromates, should be handled 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 powder with a mild abrasive action can be applied-provided the surface is not scratched.

8. During the 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 the 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 depending on amount of contamination on the glassware.
10. Special types of precipitate material may require 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, slightly traces of which will interfere with serological and culture reaction. After cleaning, thoroughly rinse with tap water ensuring that containers are partly filled water, shaken and emptied several times. Finally rinse with demonized or distilled water.
12. Drying can be undertaken either in baskets or on pegs 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. Gently place it on a pad of cotton or wool to prevent breaking of the tips. 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.
2. In laboratories where a large number of pipettes are used daily, it is convenient to use an automatic pipette washer. Polyethylene baskets and jars may be used for soaking and rinsing pipettes in chromic acid cleaning solution.
3. After drying, place pipettes in a dust-free drawer. Wrap serological and bacteriological pipettes in paper or place in pipette can and sterilize in the dry air sterilizer at 160°C for two hours. Pipette used for transferring infectious material should have.
 - (a) Plug of cotton Placed in the mouth end of the pipette before sterilizing.

BUERETTES (WITH GLASS STOPCOCK)

1. Remove the stopcock key and wash the burette with detergent and water.
2. Rinse with the 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 burette, lubricate the joint with a small amount of lubricant.

REMEMBER THAT BURETTE STOPCOCK KEYS 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(15 lb.pressure).Media that solidify on cooling should be poured out while the tubes are hot. After the tubes are emptied, brush with detergent and water, rinse thoroughly with tap water, rinse with distilled water, place in 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 and tubes are thus sterilized with one autoclaving.
3. If the tubes are to be filled with a sterile medium or if they are to be sterilized by the fractional method and sterilize the tubes in the autoclaves 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 expedient to sterilize all tubes as routine.
2. To clean and sterilize tubes containing blood, discard the cloths 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 soft 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 serological reactions.
4. Serological tubes and glassware should be kept separate from all other glassware and used for nothing except serological procedures.

DISHES AND CULTURE BOTTLES

1. Sterilize and clean as detailed under Culture Tubes.
2. Wrap in heavy paper or place in a Petri dish can.
3. Sterilize in the autoclave or dry air sterilizer.

TECHNICAL DATA

STAR EXPANSION BOROSILICATE GLASS

All the chemical research teams have used glass containers for a very basic reason - glass is transparent, thereby making the contents and the reactions clearly visible. However, owing to the fact that chemists must heat, cool and mix chemical substances, ordinary glass is not always sufficient for laboratory work.

Laboratory work requires that the apparatus for handling chemicals/media offer maximum inertness when in contact with the widest range of chemical substances. Moreover such apparatus needs to withstand thermal shock without fracture, high temperatures without deformity and mechanical shocks from daily washing and sterilization.

Star scientific glass co. represents optimum thermal, chemical and mechanical behavior. This glass is used in laboratories as well as for industrial applications where maximum thermal, chemical and mechanical resistance is required.

CHEMICAL COMPOSITION OF BOROSILICATE GLASS - 3.3

Component	% by weight
SiO ₂	80.6
B ₂ O ₃	12.5
Na ₂ O	4.2
Al ₂ O ₃	2.2
Other	0.5

RESISTANCE TO CHEMICAL

Borosilicate glass is inert to almost all materials except hydroflouric acid (HF) phosphoric acid (H₃PO₄) and hot strong caustic solutions. Of these Hydrochloric acid has the most serious effect, even when it is present in PPM (parts per million) in solutions. Where as phosphoric acid and caustic solutions cause no problems when cold but at elevated temperature corrosion occurs. In case of caustic solutions up to 30% concentration can be handled safely at ambient temperature.

Under actual operating conditions, the effect of turbulence, and traces of other chemicals in the solution may increase or decrease the rate of attack. So it is not possible to give exact figures for corrosion by caustic solutions.

THERMAL PROPERTIES

Linear coefficient of thermal expansion the coefficient of thermal expansion of borosilicate glass over the temperature 0-300° C is $33 \times 10^{-7}/^{\circ}\text{C}$. This is very low when compared with other glasses and metals. That is why; borosilicate glass is often called low expansion borosilicate glass.

SPECIFIC HEAT

Specific heat between 25°C and 300°C is average to be 0.233Kcal/Kg °C .

ANNEALING

Annealing of glass is the process where the glass is heated and kept for a defined period of time to relieve internal stresses. Careful cooling under controlled conditions is essential to ensure that no stresses are reintroduced by chilling/cooling.

MECHANICAL PROPERTIES

The lack of ductility of glass prevents the equalization of stresses at local irregularities or flaws and the breakage strength varies considerably about a mean value. This latter is found to occur at a tensile strength of about 700kg/cm

In order to allow for the spread of breaking stress, a large factor of safety is applied when determining the wall thickness requirement to allow operation up to values given in the table of working pressure.

OPTICAL PROPERTIES

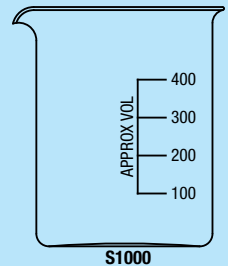
Borosilicate glass considerable absorption in the visible region of spectrum and therefore appears clear and colorless. In photo chemical processes the transparency of ultra violet is of particular importance. It follows from the transmittance of material in UV region that photo chemical reactions such as chlorination & sulpho-chlorination can be performed in it.

S1000 - BEAKERS

Griffin, Low Form With Spout, Graduated.

Cap ml.	MRP/PC EURO
5	0.73
10	0.82
25	1.00
50	0.73
100	0.82
150	0.91
250	1.00
400	1.45
500	1.65
600	1.55
1000	3.27
2000	5.80
3000	9.00
5000	13.64
10000	62.09

25ml to 10,000ml Graduated

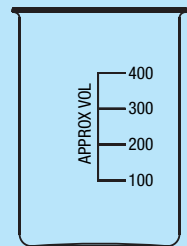


S1000

S1040 - BEAKERS

Berzelius, Tall Form, Without Spout.

Cap ml.	MRP/PC EURO
50	1.27
100	1.36
250	1.36
500	2.09
1000	4.18

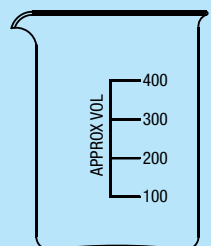


S1040

S1060 - BEAKERS

Berzelius, Tall Form, With Spout.

Cap ml.	MRP/PC EURO
100	1.27
250	1.36
500	2.09
1000	4.18



S1060

S1080 - BEAKERS

Philips, Conical, With Spout.

Cap ml.	MRP/PC EURO
250	3.00
500	3.82



S1060

S1220 - BOTTLES

Bottles-Aspirator, With Outlet For Tubing.

Cap ml.	MRP/PC EURO
250	3.09
500	3.45
1000	5.82
2000	10.09



S1220

S1240 - BOTTLES

Bottles - Aspirator, With Outlet For Stopper.

Cap ml.	MRP/PC EURO
1000	7.45
2000	11.27
5000	52.09
10000	75.09



S1240

S1245 - BOTTLES

Bottles - Aspirator, With Interchangeable Stopper And Stopcock.

Cap ml.	MRP/PC EURO
1000	23.45
2000	27.00
5000	73.64
10000	97.00
20000	135.82



S1245

S1250 - BOTTLES

Bottles - B.O.D. With Interchangeable Stopper.

Cap ml.	MRP/PC EURO
125	5.27
300	6.27



S1250

S1260 - BOTTLES

Bottles - Centrifuge, Original Form.

Cap ml.	MRP/PC EURO
250	6.64
500	9.55



S1260

S1500 - BOTTLES

Bottles - Reagent, Plain Narrow Mouth, With Interchangeable Flat Head Stopper.

Cap ml.	MRP/PC EURO
60	3.45
125	3.64
250	3.91
500	4.45
1000	6.27
2000	10.73



S1500

S1501 - BOTTLES

Bottles - Reagent, Wide Mouth With Screw Cap
And Pouring Ring, Graduated.

Cap ml.	MRP/PC EURO
30*	2.73
60*	2.91
100	3.45
250	3.64
500	4.09
1000	5.45
2000	10.27
5000	48.00
10000	64.45
20000	113.64

*Without pouring rings



S1501

S1509 - BOTTLES

Bottles - Reagent, **AMBER** Narrow Mouth
With Interchangeable Flat Head Stopper.

Cap ml.	MRP/PC EURO
60	4.64
125	4.91
250	5.91
500	7.09
1000	9.36
2000	15.73



S1509

S1585 - BOTTLES

Bottles - Solution, Plain Tooled Neck.

Cap ml.	MRP/PC EURO
250	2.64
500	4.64
1000	4.64
2000	8.18
3000	19.64
5000	55.55
9500	69.55
10000	79.36
13250	99.36
20000	128.91



S1585

S1589 - BOTTLES

Bottles - Solution, AMBER Tooled Neck.

Cap ml.	MRP/PCEURO
250	4.91
500	5.45
1000	7.91
2000	13.00



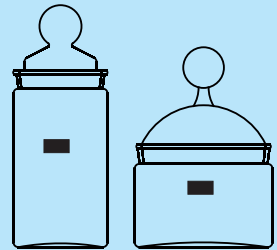
S1589

S1630 - BOTTLES

Bottles-Weighing, With Interchangeable Stopper.

Cap ml.	MRP/PCEURO
5	2.91
15	3.35
*20	6.75
25	3.91
*40	9.55
60	9.55

* Squat form

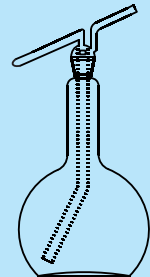


S 1630

S1660 - BOTTLES

Bottles-Wash, Complete With Interchangeable Stopper.

Cap ml.	MRP/PCEURO
250	5.82
500	7.73
1000	9.36

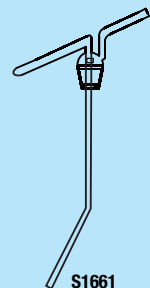


S 1660

S1661 - BOTTLES

Stopper-Only for Wash Bottles Cat. Nos. S1660.

Cap ml.	MRP/PCEURO
250	3.73
500	4.09
1000	4.36



S1661

S1662 - BOTTLES

Bottles-Only For Wash Bottles Cat. Nos. **S1660**.

Cap ml.	MRP/PC EURO
250	2.09
500	3.64
1000	5.00

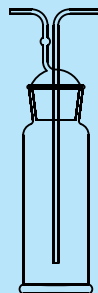


S1662

S1760 - BOTTLES

Bottles-GasWashing,Complete With Interchangeable Stopper.

Cap ml.	MRP/PC EURO
125	9.27
250	10.00
500	12.09

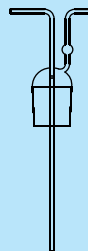


S1760

S1761 - BOTTLES

Stoppers-Only For Gas Washing Bottles Cat. Nos. **S1760**.

Cap ml.	MRP/PC EURO
125	3.91
250	4.00
500	4.65



S1761

S1762 - BOTTLES

Bottles- Only For Gas Washing Bottles Cat. Nos. **S1760**.

Cap ml.	MRP/PC EURO
125	5.36
250	6.00
500	7.45

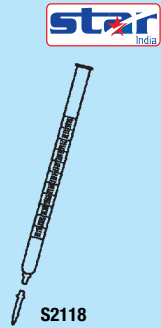


S1762

S2118 - BURETTES

For Pinchcock, With Tip, Accuracy as per Class B.

Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	4.45
25	0.1	4.91
50	0.1	5.27



S2121 - BURETTES

Rotaflo, Fitted With Rotaflo GP (General Purpose), Screw Thread Stopcock With PTFE Keys, Accuracy as per Class-A.

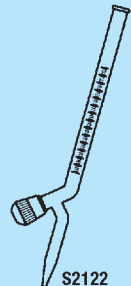
Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	16.00
25	0.1	17.00
50	0.1	18.00
100	0.2	26.09



S2122 - BURETTES

Rotaflo, Fitted With Rotaflo GP (General Purpose), Screw Thread Stopcock With PTFE Keys, Accuracy as per Class-B.

Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	6.09
25	0.1	6.00
50	0.1	6.55
100	0.2	9.09



S2123 - BURETTES

Straight Bore Stopcock, Accuracy as per Class A.

Cap ml.	Graduation ml.	MRP/PC EURO
* 1	0.01	17.64
* 2+	0.02	17.64
* 5	0.02	16.36
10	0.05	16.36
25	0.1	16.73
50	0.1	19.00
100	0.2	26.82

*+ not covered in I.S. +*with cup top



S2124 - BURETTES

Straight Bore Stopcock, Accuracy as per Class B.

Cap ml.	Graduation ml.	MRP/PC EURO
1	0.01	7.55
2	0.02	7.55
5	0.02	7.55
10	0.05	6.64
25	0.1	6.64
50	0.1	7.27
100	0.2	9.64

*with cup top



S2125 - BURETTES

Double Oblique Bore Stopcock, 3-Way, Accuracy as per Class A.

Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	28.18
25	0.1	31.18
50	0.1	37.45
100	0.2	47.73



S2126 - BURETTES

Double Oblique Bore Stopcock, 3-Way, Accuracy as per Class B.

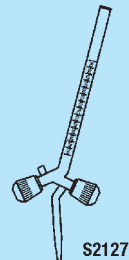
Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	17.64
25	0.1	17.64
50	0.1	21.36
100	0.2	26.64



S2127- BURETTES

Double Oblique Bore Rotaflo Stopcock, 3-Way, Accuracy as per Class A.

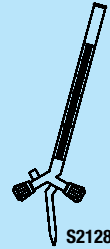
Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	27.73
25	0.1	30.73
50	0.1	37.00
100	0.2	42.27



S2128 - BURETTES

Double Oblique Bore Rotaflo Stopcock, 3-Way, Accuracy as per Class B.

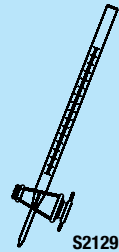
Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	16.82
25	0.1	17.18
50	0.1	21.00
100	0.2	25.73



S2129 - BURETTES

Straight Bore PTFE Key Stopcock, Accuracy as per Class A.

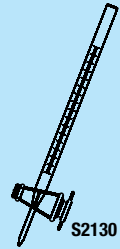
Cap ml.	Graduation ml.	MRP/PC EURO
50	0.1	19.91



S2130 - BURETTES

Straight Bore PTFE Key Stopcock, Accuracy as per Class B.

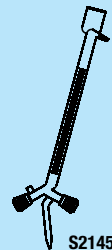
Cap ml.	Graduation ml.	MRP/PC EURO
50	0.1	9.00



S2145 - BURETTES

Double Oblique Bore Rotaflo Stopcock, 3-Way, Automatic Zero, Accuracy as per Class A.

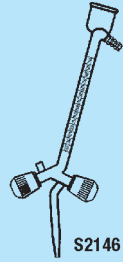
Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	51.00
25	0.1	56.36
50	0.1	71.00



S2146 - BURETTES

Double Oblique Bore Rotaflo Stopcock, 3-Way, Automatic Zero, Accuracy as per Class B.

Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	38.00
25	0.1	41.82
50	0.1	51.00

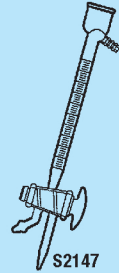


S2146

S2147 - BURETTES

Double Oblique Bore Stopcock, 3-Way, Automatic Zero, Accuracy as per Class A.

Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	53.00
25	0.1	58.00
50	0.1	71.00

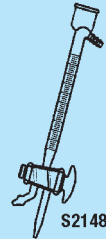


S2147

S2148 - BURETTES

Double Oblique Bore Stopcock, 3-Way, Automatic Zero, Accuracy as per Class B.

Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	38.00
25	0.1	43.64
50	0.1	51.00

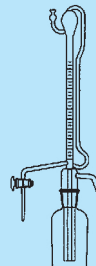


S2148

S2149 - BURETTES

Automatic Zero, Mounted on Reservoir, With Rubber Bellows, Class A.

Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	54.55
25	0.1	52.73
50	0.1	60.00
100	0.2	67.27



S2149

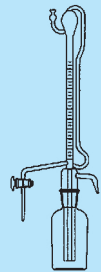
2150 - BURETTES

Automatic Zero, Mounted on Reservoir,
With Rubber Bellows, Class B.

Cap ml.	Graduation ml.	MRP/PC EURO
10	0.05	40.00
25	0.1	38.00
50	0.1	42.00
100	0.2	47.00

Reservoir Capacity :

500 ml. for 10ml. size and 2000ml. for 25,50 and 100ml.sizes



S2150

S2160 - CONES

Imhoff. Sediment, Sharp Tip.

Approx. Height	Approx Top Dia mm	MRP/PC EURO
454mm	105	30.55



S2160

S2180 - CONES

Imhoff. Sediment, Blunt Tip.

Approx. Height	Approx Top Dia mm	MRP/PC EURO
439mm	105	30.64



S2180

S2330 - CONDENSERS

Air With Cone & Socket.

Socket Size	Length mm	MRP/PC EURO
10/19	100	1.64
14/23	200	1.82
19/26	200	2.18
19/26	300	2.55
19/26	400	2.91
19/26	500	3.45
19/26	600	4.00
24/29	400	3.45
24/29	600	4.73



S2330

S2340 - CONDENSERS

Liebig, With Sealed Inner Tube.

Approx Length of Jacket mm	Approx Height mm	MRP/PC EURO
200	345	2.18
300	445	2.45
400	545	3.00
500	645	4.00

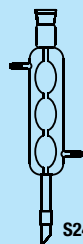


S2340

S2480 - CONDENSERS

Allihn, Drip Tip, Interchangeable Inner Joint and Interchangeable Outer Joint.

Approx Length of Jacket mm	Approx Height mm	MRP/PC EURO
200	350	3.55
300	450	4.00
400	550	5.00
600	750	7.25

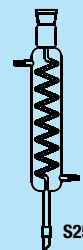


S2480

S2560 - CONDENSERS

Graham, Coiled Distillate Type, Drip Tip, Interchangeable Inner Joint & Interchangeable Outer Joint.

Approx Length of Jacket mm	Approx Height mm	MRP/PC EURO
300	450	4.25
400	550	5.55
500	650	6.75

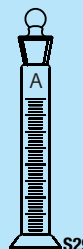


S2560

S2981 - CYLINDERS

Graduated single Metric Scale, With Penny Head Interchangeable Stopper With Hexagonal Base Class-A.

Cap ml.	MRP/PC EURO
10	7.85
25	9.00
50	10.18
100	12.00
250	19.00
500	24.25
1000	29.55
2000	47.25

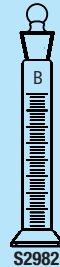


S2981

S2982 - CYLINDERS

Graduated Single Metric Scale, With Penny Head Interchangeable Stopper With Hexagonal Base Accuracy Class B.

Cap ml.	MRP/PC EURO
5	4.00
10	4.15
25	4.65
50	5.25
100	6.35
250	11.00
500	15.00
1000	22.00
2000	37.75



S3021 - CYLINDERS

Graduated Single Metric Scale, With Pour Out, With Hexagonal Base Class A.

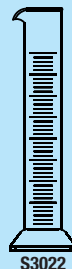
Cap ml.	MRP/PC EURO
10	5.00
25	6.00
50	6.85
100	7.75
250	12.00
500	16.55
1000	20.55
2000	38.55



S3022 - CYLINDERS

Graduated Single Metric Scale, With Pour Out, With Hexagonal Base Accuracy As Class-B.

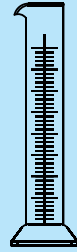
Cap ml.	MRP/PC EURO
5	2.55
10	3.00
25	3.35
50	3.73
100	4.25
250	7.85
500	10.35
1000	15.45
2000	29.00



S3024 - CYLINDERS

Graduated Single Metric Scale, With Pour Out, Schellbach Type.

Cap ml.	MRP/PC EURO
50	4.15
100	5.00

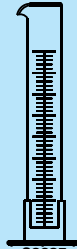


S3024

S3025 - CYLINDER

Graduated Single Metric Scale, With Pour Out, Detachable LDPE Plastic Hexagonal Base.

Cap ml.	MRP/PC EURO
10	2.00
25	2.45
50	3.20
100	3.65

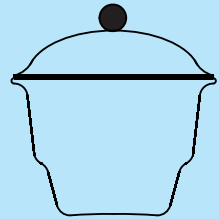


S3025

S3081 - DESICCATORS

With Cover, Konb Top.

Approx I.D of Ground Flange mm	MRP/PC EURO
100	60.00
150	65.00
200	73.75
250	96.65

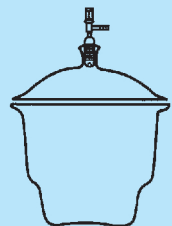


S3081

S3119 - DESICCATORS

Vaccum, With Tubulated Cover, Stopcock With PTFE Spindle.

Approx I.D of Ground Flange mm	MRP/PC EURO
150	120.00
200	125.45
250	174.55
300	267.25



S3119

S3140 - DISHES

Crystallizing.

Approx O.D x Height mm	MRP/PC EURO
100 x 50	1.90
150 x 75	3.45
190 x 100	6.65



S3140

S3160 - DISHES

Culture, Petri.

Approx O.D x Height mm	MRP/PC EURO
50 x 17	1.65
80 x 17	1.85
100 x 17	2.00
150 x 20	4.75
200 x 20	8.45



S3160

S3161 - DISHES

Top Only For Petri Dishes Cat No **S3160**.

Approx O.D x Height mm	MRP/PC EURO
54 x 15mm	0.82
83 x 15mm	0.91
98 x 15mm	1.00
153 x 17mm	2.35
203 x 17 mm	4.15



S3161

S3162 - DISHES

Bottom Only For Petri Dishes Cat No. **S3160**.

Approx O.D x Height mm	MRP/PC EURO
50 x 17	0.82
80 x 17	0.91
100 x 17	1.00
150 x 20	2.35
200 x 20	4.15



S3162

S3165 - DISHES

Culture Petri, S - Line.

Approx O.D x Height	MRP/PC EURO
50X12mm	1.65
80X15mm	1.85
100X15mm	2.00
150X25mm	4.75
200X30mm	8.45

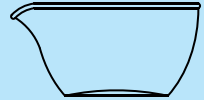


S3165

S3180 - DISHES

Evaporating, Flat Bottom, With Pour Out.

Cap ml.	MRP/PC EURO
80 X 45	1.25
105 X 55	1.85
150 X 80	3.00
200 X 100	6.35



S3180

S3740 - EXTRACTION- APPARATUS

Extractors-Soxhlet, Interchangeable Joint.

Cap ml.	MRP/PC EURO
60	4.09
100	4.45
200	6.75

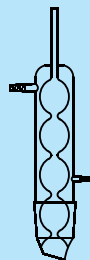


S3740

S3741 - EXTRACTION APPARATUS

Condensers-Only For Extraction Apparatus, Allihn.

Cap ml.	MRP/PC EURO
Small	3.65
Medium	4.55
Large	6.35



S3741

S3840 - EXTRACTION APPARATUS

Extraction Apparatus-Soxhlet Complete With Allihn Condenser, Interchangeable Joint.

Cap ml.	MRP/PC EURO
Small 60 ml	9.00
Medium 100 ml	10.91
Large 200 ml	16.35

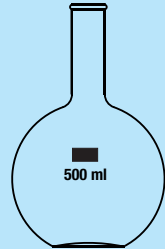


S3840

S4060 - FLASKS

Boiling, Flask, Flat Bottom.

Cap ml.	MRP/PC EURO
25	1.09
50	1.18
100	1.36
150	1.45
250	1.55
300	2.27
500	2.35
1000	3.35
2000	6.35
3000	16.82
5000	27.00
6000	39.73
10000	56.88
20000	107.00

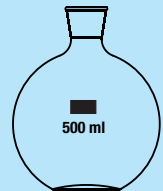


S4060

S4100 - FLASKS

Boiling, Flat Bottom, Short Neck, Interchangeable Joint.

Cap ml.	MRP/PC EURO
150	1.85
250	2.00
500	2.75



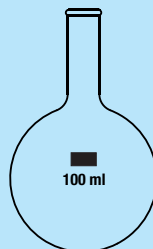
S4100

S4260 - FLASKS

Boiling, Round Bottom.



Cap ml.	MRP/PC EURO
25	1.09
50	1.18
100	1.35
150	1.45
250	1.55
500	2.27
1000	3.27
2000	6.45
3000	16.55
5000	26.55
6000	38.00
10000	56.00
20000	102.55



S4260

S4315 - FLASKS

Boiling, Pear Shaped, Short Neck, With Interchangeable Joint.

Cap ml.	MRP/PC EURO
25	3.65
50	4.00

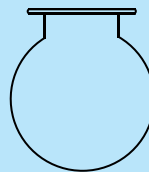


S4315

S4330 - FLASKS

Flasks-(Vessels) Reaction, Wide Mouth, Flat Flange, 100mm I.D, 150 mm O.D.

Cap ml.	MRP/PC EURO
1000	18.75
2000	25.45
5000	57.85
10000	121.00
20000	215.00

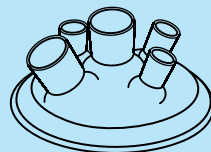


S4330

S4331 - FLASKS

Lids-For Flasks Reaction Cat No.S 4330, Flat Flange And Interchangeable Joint.

Center, Parallet, Side 5deg, 10deg, 15deg.	MRP/PC EURO
19/26 , 19/26 , 24/29 , 19/26	43.65
19/26 , 14/23 , 14/23 , 14/23 , 29/32	43.65
29/32 , 14/23 , 14/23 , 14/23 , 29/32	43.65

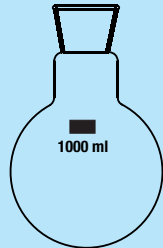


S4331

S4380 - FLASKS

Boiling, Round Bottom, Short Neck, With Interchangeable Joint.

Cap ml.	MRP/PC EURO
50	1.75
100	1.85
250	2.45
500	3.25
1000	4.55
2000	8.65
3000	22.15
5000	34.75
10000	68.15
20000	129.00

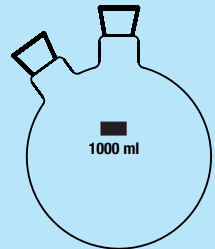


S4380

S4381 - FLASKS

Round Bottom, Two Neck, Centre Neck And One Angled Side Neck With Interchangeable Joint.

Cap. ml	Joint center N/ Side N	MRP/PC EURO
100	24/29 , 19/26	2.75
250	24/29 , 19/26	3.85
500	24/29 , 19/26	5.45
1000	24/29 , 19/26	6.55
2000	24/29 , 19/26	12.00
3000	34/35 , 19/26	29.65
5000	34/35 , 19/26	43.65
10000	55/44 , 24/29	78.75
20000	55/44 , 24/29	132.75



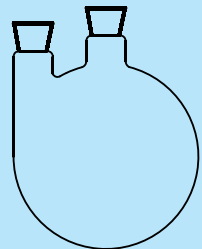
S4381

JOINT SIZES to be indicated whilst placing orders.

S4382 - FLASKS

Round Bottom, Two Neck, Centre Neck And One Parallel Side Neck With Interchangeable Joint.

Cap. ml	Joint center N/ Side N	MRP/PC EURO
100	24/29 , 19/26	2.75
250	24/29 , 19/26	3.85
500	24/29 , 19/26	5.45
1000	24/29 , 19/26	6.55
2000	24/29 , 19/26	12.00
3000	34/35 , 19/26	29.65
5000	34/35 , 19/26	43.65
10000	55/44 , 24/29	77.25
20000	55/44 , 24/29	131.85



S4382

JOINT SIZES to be indicated whilst placing orders.

S4383 - FLASKS

Round Bottom, Three Neck, Centre Neck And Two Angled Side Neck with Interchangeable Joint.



Cap. MI	Joint center N/ Side N	MRP/PC EURO
100	19/26 , 14/23 , 14/23	2.75
250	19/26 , 19/26 , 19/26	3.85
500	19/26 , 19/26 , 19/26	5.45
1000	34/35, 24/29 , 24/29	6.55
2000	34/35, 24/29 , 24/29	12.00
3000	34/35, 24/29 , 24/29	29.65
5000	45/40 , 24/29 , 24/29	43.65
10000	45/40 , 24/29 , 24/29	77.25
20000	55/44 , 24/29 , 24/29	131.82

JOINT SIZES to be indicated whilst placing orders.

S4384 - FLASKS

Round Bottom, Three Neck, Center Neck And Two Parallel Side Neck With Interchangeable Joint.

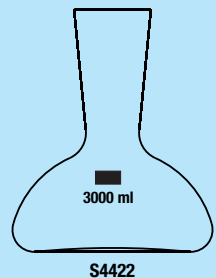
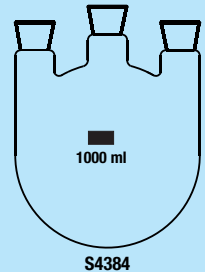
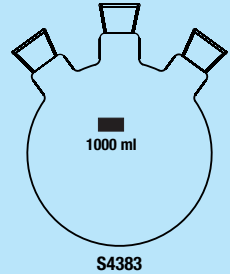
Cap. MI	Joint center N/ Side N	MRP/PC EURO
100	19/26 , 14/23 , 14/23	3.64
250	19/26 , 19/26 , 19/26	5.18
500	19/26 , 19/26 , 19/26	7.55
1000	34/35, 24/29 , 24/29	10.0
2000	34/35, 24/29 , 24/29	16.85
3000	34/35, 24/29 , 24/29	39.00
5000	45/40 , 24/29 , 24/29	55.00
10000	45/40 , 24/29 , 24/29	96.35
20000	55/44 , 24/29 , 24/29	152.75

JOINT SIZES to be indicated whilst placing orders.

S4422 - FLASKS

Culture, Haffkine.

Cap ml.	MRP/PC EURO
3000	21.85
4000	26.35

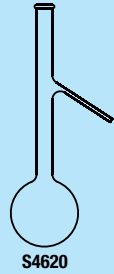


S4620 - FLASKS

Distilling, With Side Arm.

Cap ml.	MRP/PC EURO
100	2.45
*125	2.75
250	3.00
500	4.00
1000	8.00
2000	8.65

* Specifications as per Institute of Petroleum Std. No. IP 123/64



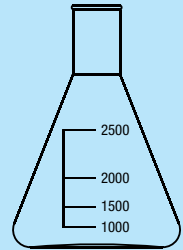
S4620

S4980 - FLASKS

Erlenmeyer, Graduated, Conical, Narrow Mouth.

Cap ml.	MRP/PC EURO
10	0.91
25	1.00
50	1.10
100	1.20
150	1.35
250	1.45
500	1.85
1000	3.00
2000	5.91
3000	10.75
5000	20.65

25 ml to 5000 ml graduated.

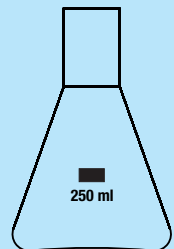


S4980

S4981 - FLASKS

Erlenmeyer, Conical, Long Neck, Without Rim.

Cap ml.	MRP/PC EURO
250	1.75

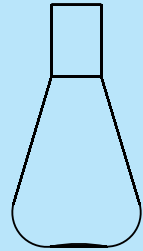


S4981

S4982 - FLASKS

Flasks-Conical, Without Rim.

Cap ml.	MRP/PC EURO
750	4.10

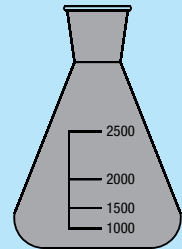


S4982

S4989 - FLASKS

Erlenmeyer, Graduated, Conical, AMBER, With Narrow Mouth.

Cap ml.	MRP/PC EURO
100	1.85
150	2.20
250	2.45
500	3.36
1000	5.45

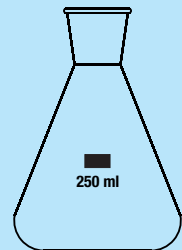


S4989

S5000 - FLASKS

Erlenmeyer, Narrow Mouth, Interchangeable Joint.

Cap ml.	MRP/PC EURO
250	2.27
500	2.91

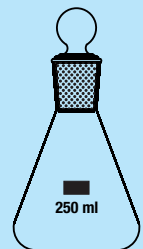


S4990

S5020 - FLASKS

Erlenmeyer, Conical, Narrow Mouth With Interchangeable Stopper.

Cap ml.	MRP/PC EURO
25	1.82
50	2.00
100	2.35
250	2.91
500	4.25

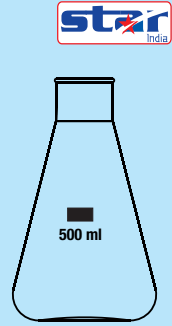


S5020

S5100 - FLASKS

Erlenmeyer, Conical, Wide Mouth.

Cap ml.	MRP/PC EURO
100	1.00
250	1.55
500	2.35
1000	4.00

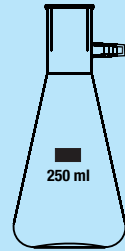


S5100

S5340 - FLASKS

Filtering Heavy Wall, Bolt Neck, With Tabulation.

Cap ml.	MRP/PC EURO
50	1.82
100	2.95
250	4.00
500	4.95
1000	7.00
2000	12.95
5000	49.00
* 10000	89.00
* 20000	138.15



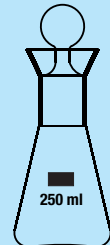
S5340

* These flasks are bottle shaped.

S5400 - FLASKS

Iodine Determination, Interchangeable Stopper.

Cap ml.	MRP/PC EURO
100	2.35
250	3.00
500	3.65

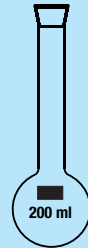


S5400

S5420 - FLASKS

Kjeldahi, Round Bottom, Long Neck.

Cap ml.	MRP/PC EURO
10	0.91
30	1.20
100	2.10
300	3.65
500	7.00
800	8.65

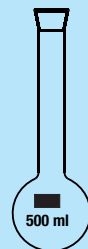


S5420

S5430 - FLASKS

Kjeldahl, Round Bottom, Interchangeable Joint.

Cap ml.	MRP/PC EURO
500	8.15
800	9.11

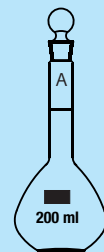


S5430

S5640 - FLASKS VOLUMETRIC

Flasks-Volumetric, With Interchangeable Stopper, Accuracy as per Class A.

Cap. ml	Joint center N/ Side N	MRP/PC EURO
10	0.04	7.25
20	0.04	7.25
25	0.04	6.85
50	0.06	6.85
100	0.1	7.35
200	0.15	9.10
250	0.15	9.10
500	0.25	12.00
1000	0.4	17.55
2000	0.6	28.45



S5640

S5641 - FLASKS VOLUMETRIC

Flasks-Volumetric, With Interchangeable Stopper,
Accuracy as per Class B.

Cap. MI	Tolerance +/- MI	MRP/PC EURO
10	0.05	2.75
20	0.08	2.73
25	0.08	2.55
50	0.12	2.91
100	0.2	3.36
200	0.3	3.73
250	0.3	3.85
500	0.5	5.18
1000	0.8	7.82
2000	1.2	15.00



S5642 - FLASKS VOLUMETRIC

Flasks-Volumetric, With Interchangeable LDPE Plastic
Stopper, Accuracy as per Class B.

Cap. MI	Tolerance +/- MI	MRP/PC EURO
25	0.08	2.55
50	0.12	2.85
100	0.2	3.25
200	0.3	3.55
250	0.3	3.65
500	0.5	5.00
1000	0.8	7.75



S5648 - FLASKS VOLUMETRIC

Flasks-Volumetric, With Interchangeable Stopper,
AMBER Accuracy as per Class A.

Cap. MI	Tolerance +/- MI	MRP/PC EURO
25	0.04	8.10
50	0.06	8.10
100	0.1	8.75



S5649 - FLASKS VOLUMETRIC

Flasks-Volumetric, With Interchangeable Stopper,
AMBER Accuracy as per Class B.

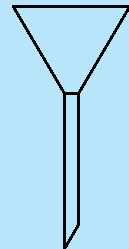
Cap. MI	Tolerance +/- MI	MRP/PC EURO
25	0.08	3.85
50	0.12	4.00
100	0.2	4.55
250	0.3	5.45
500	0.5	7.65
1000	0.8	11.85
2000	1.2	19.85



S6140 - FUNNELS

Plain, 60° Angle Stem.

Diameter mm	MRP/PC EURO
25	.35
35	.45
50	.55
65	.73
75	.85
100	1.25

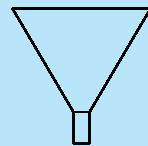


S6140

S6220 - FUNNELS

Powder, Short Stem.

Diameter mm	MRP/PC EURO
125	3.65
150	3.85
200	10.35
250	15.00



S6220

S6340 - FUNNELS

Separating, Globe Shape, With Stopcock And
Interchangeable Stopper.

Cap. MI	MRP/PC EURO
125	11.27
250	12.35
500	15.75
1000	19.25
2000	32.75
5000	75.55



S6340

S6400 - FUNNELS

Separating, Pear Shape, With Stopcock And Interchangeable Stopper.

Cap. MI	MRP/PC EURO
60	9.45
125	10.45
250	12.00
500	12.55
1000	15.55
2000	36.35



S6400

S6401- FUNNELS

Separating, Pear Shape, With Hollow Plug Stopcock Hollow Interchangeable Stopper.

Cap. MI	MRP/PC EURO
125	2.45
250	3.85
500	5.00
1000	8.20



S6401

S6402 - FUNNELS

Separating, Pear Shape, Fitted With Rotaflo Stopcock With PTFE Key & Stopper.

Cap. MI	MRP/PC EURO
60	8.55
125	10.00
250	11.35
500	14.85
1000	18.50



S6402

S6403 - FUNNELS

Separating, Pear Shape, With PTFE Key Stopcock Interchangeable Stopper.

Cap. MI	MRP/PC EURO
250	14.00
500	17.55
1000	21.25



S6403

S6404 - FUNNELS

Separating, Pear Cylindrical.

Cap. MI	MRP/PC EURO
25	4.10
50	4.65
100	5.65
250	8.85
500	12.65
1000	14.20



S6404

S6405 - FUNNELS

Separating, Pear Cylindrical With PTFE Plug.

Cap. MI	MRP/PC EURO
25	4.10
50	4.68
100	5.68
250	8.85
500	12.68
1000	14.20



S6405

S6406 - FUNNEL

Buchner Type, With Sintered Dish as per G1 to G5 Porosity .

Cap. MI	MRP/PC EURO
35 G1-4	3.25
35 - G5	3.68
80 G1-4	6.35
80 - G5	7.75
200 G1-4	11.00
200 - G5	11.35
500 G1-4	24.55
500 - G5	27.25
1000 G1-4	51.00
1000 - G5	63.65
1500 G1-4	78.00
2000 - G5	115.00



S6406

S6407 - FILTERS

Pipeline Filters With Sintered Dish as per porosity options.
G1 to G5.

Cap. MI	MRP/PC EURO
30 G1-4	3.65
30 -G5	4.15
65 G1-4	13.35
65 -G5	16.00
90 G1-4	29.00
90 - G5	34.45
125 G1-4	80.35
125 -G5	88.18



S6407

S6560 - GROUND JOINTS

Inner Part Only, Interchangeable.

Joint Size	MRP/PC EURO
10/19	1.65
12/21	1.65
14/23	1.65
19/26	1.65
24/29	1.65
29/32	2.35
34/35	2.75
40/38	4.85
45/40	5.45
50/42	5.75
55/44	6.65



S6560

S6580 - GROUND JOINTS

Outer Part Only, Interchangeable.

Joint Size	MRP/PC EURO
10/19	1.65
12/21	1.65
14/23	1.65
19/26	1.65
24/29	1.65
29/32	2.35
34/35	2.75
40/38	4.55
45/40	5.45
50/42	5.75
55/44	6.65



S6580

S6886 - JARS

Bell , Round Bottom , Edge Ground.

Approx. Cap Ltr.	Approx O.D x Height mm	MRP/PC EURO
19	300 x 450	163.85
17	300 x 400	158.15
6	200 x 350	78.15



S6886

S6905 - JARS

Cylindrical, Fermentation.

Approx. Cap Ltr.	Approx O.D x Height mm	MRP/PC EURO
10	220 x 320	91.85
14	220 x 455	122.00

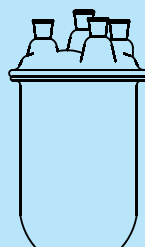


S6905

S6947- KETTLES

Kettle, Resin Reactions.

Approx. Cap Ltr.	Body Dia mm x Height mm	MRP/PC EURO
500	95 x 178	116
1000	108 x 178	120
2000	140 x 190	147
4000	140 x 343	178

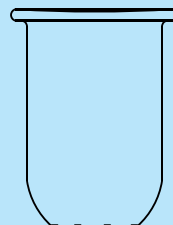


S6947

S6948 - KETTLES

Only For Kettles Cat No. S6947.

Cap. MI	MRP/PC EURO
500	45.45
1000	44.00
2000	63.65
4000	96.36

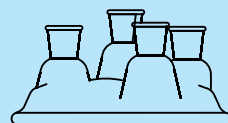


S6948

S6949 - KETTLES

Only For Kettles Cat No. S6947.

Cap. MI	MRP/PC EURO
500	71.00
1000	71.00
2000	82.00
4000	82.00

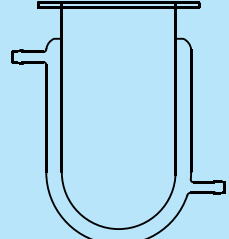


S6949

S6950 - JACKETED KETTLES

Jacketted Reaction Kettles.

Cap. MI	MRP/PC EURO
1000	96.35
2000	125.00

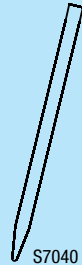


S6950

S7040 - PIPETTES

Artificial Insemination, Cattle, Taper Tip.

Length mm	MRP/PC EURO
450	0.55

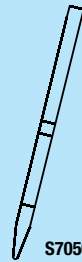


S7040

S7056 - PIPETTES

Bacteriological, Graduated.

Cap. MI	Tolerance +/- ml	MRP/PC EURO
1.1	0.025	1.25
2.2	0.040	1.35



S7056

S7057 - PIPETTES

Gerber, Milk.

Cap. MI	Tolerance +/- ml	MRP/PC EURO
10.75	0.03	1.25



S7057

S7060 - PIPETTES

Measuring (MOHR Type), Accuracy as per Class B.



Cap ml x Graduation interval ml	Tolerance +/- ml	MRP/PC EURO
0.1 x 0.01	0.01	3.75
0.2 x 0.01	0.01	3.75
1.0 x 0.01	0.01	3.11
1.0 x 0.10	0.01	3.00
2.0 x 0.02	0.02	3.45
2.0 x 0.10	0.02	3.15
5.0 x 0.05	0.05	4.11
5.0 x 0.10	0.1	3.75
10.0 x 0.10	0.1	4.30
25.0 x 0.20	0.2	5.10

* Not covered by IS specification



S7060

S7062 - PIPETTES

Measuring (MOHR Type), Accuracy as per Class B.

Cap ml x Graduation interval ml	Tolerance +/- ml	MRP/PC EURO
0.1x0.01	0.01	1.15
0.2x0.01	0.01	1.00
1.0x0.01	0.01	1.10
1.0x0.10	0.01	1.10
2.0x0.02	0.02	1.20
2.0x0.10	0.02	1.10
5.0x0.05	0.05	1.35
5.0x0.10	0.1	1.25
10.0x0.10	0.1	1.45
25.0x0.20	0.2	2.15



S7062

S7080 - PIPETTES

Serological, Class B.

Cap ml x Graduation interval ml	Tolerance +/- ml	MRP/PC EURO
0.1x0.01	0.01	1.15
0.2x0.01	0.01	1.00
1.0x0.01	0.01	1.10
1.0x0.10	0.01	1.00
2.0x0.02	0.02	1.20
2.0x0.10	0.02	1.10
5.0x0.05	0.05	1.35
5.0x0.10	0.1	1.25
10.0x0.10	0.1	1.45
25.0x0.20	0.2	2.15



S7080

S7082 - PIPETTES

Serological (White Marking).

Cap ml x Graduation interval ml	Tolerance +/- ml	MRP/PC EURO
0.1X0.01	0.01	1.15
0.2X0.01	0.01	1.10
1.0X0.01	0.01	1.10
1.0X0.10	0.01	1.00
2.0X0.02	0.02	1.18
2.0X0.10	0.02	1.10
5.0X0.05	0.05	1.35
5.0X0.10	0.1	1.25
10.0X0.10	0.1	1.45
25.X0.20	0.2	2.15



S7082

S7090 - PIPETTES

Serological, KAHN, Accuracy as per Class B.

Cap ml	Graduation interval ml	MRP/PC EURO
0.1	0.002	2.35
0.2	0.004	2.35
0.3	0.006	2.55



S7090

S7100 - PIPETTES

Transfer, Volumetric, Accuracy as per Class A

Cap ml	Tolerance +/- ml	MRP/PC EURO
1	0.007	2.45
2	0.010	2.36
5	0.015	2.75
10	0.020	3.35
20	0.030	4.35
25	0.030	4.75
50	0.050	5.15
100	0.080	8.00



S7100

S7102 - PIPETTES

Transfer, Volumetric, Accuracy as per Class B.

Cap ml	Tolerance +/- ml	MRP/PC EURO
1	0.015	1.10
2	0.02	1.10
5	0.030	1.20
10	0.04	1.35
20	0.06	1.65
25	0.06	1.75
50	0.10	2.10
100	0.16	3.10



S7102

S7105 - PIPETTES

Ostwald - Folin.

Cap. ml	MRP/PC EURO
0.5	2.10
1.0	2.55

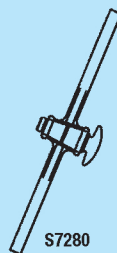


S7105

S7280 - STOPCOCKS

Straight Bore, Solid Stopper Plug.

Bore of Stopper mm	MRP/PC EURO
2	5.45
3	7.64
4	8.73
6	10.91

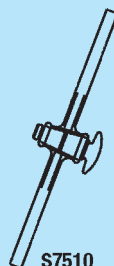


S7280

S7510 - STOPCOCKS

High Vacuum, Straight Bore, Solid Stopper Plug.

Bore of Stopper mm	MRP/PC EURO
2	10.65
4	12.75

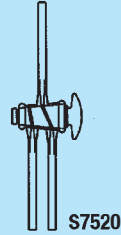


S7510

S7520 - STOPCOCKS

High Vacuum, Double Oblique Bore, Solid Stopper Plug.

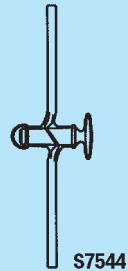
Bore of Stopper mm	MRP/PC EURO
2	17.85



S7544 - STOPCOCKS

High Vacuum, Oblique Bore, Vacuum Cap, Hollow Stopper Plug.

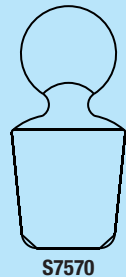
Bore of Stopper mm	MRP/PC EURO
2	27.55
4	30.55
6	45.45



S7570 - STOPPERS

Interchangeable Ground Joint, Hollow Penny Head.

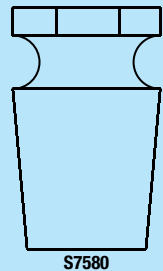
Joints	MRP/PC EURO
10/19	1.91
14/23	1.91
19/26	1.91
24/29	2.27
29/32	2.45
34/35	3.45
45/40	5.73
55/44	7.27



S7580 - STOPPERS

Stopper, Hexagonal.

Joints	MRP/PC EURO
10/19	0.55
14/23	0.65
19/26	0.75
24/29	0.91
29/32	1.18
34/35	1.55
40/38	2.15



S7840 - TUBES

Blood Sugar, Folin - Wu.

CAP.	Approx O.D x Length mm	MRP/PC EURO
25	20 x 215	2.28



S7840

S7920 - TUBES

Digestion, Folin - Wu.

Approx O.D x Length mm	MRP/PC EURO
25X200mm	1.55



S7920

S8060 - TUBES

Centrifuge, Conical Bottom Plain, Graduated.

Cap. MI	Approx O.D x Length mm	MRP/PC EURO
15	17 x 120	0.50



S8060

S8080 - TUBES

Centrifuge, Conical Bottom Plain, Graduated.

Cap. MI	Approx O.D x Length mm	MRP/PC EURO
15	17 x 120	1.27
50	29 x 135	2.65

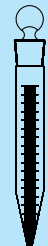


S8060

S8084 - TUBES

Centrifuge, Conical Bottom, Graduated With Stopper.

Cap. MI	Approx O.D x Length mm	MRP/PC EURO
15	17 x 139	4.00
50	29 x 151	5.00

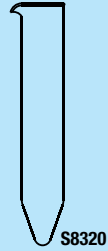


S8084

S8320 - TUBES

Centrifuge, Short Conical Bottom, Pour Out, Heavy Duty, Plain.

Cap. MI	Approx O.D x Length mm	MRP/PC EURO
40	29 x 116	1.75

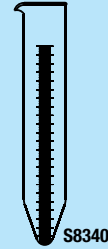


S8320

S8340 - TUBES

Centrifuge, Short Conical Bottom, Pour Out, Heavy Duty, Graduated.

Cap. MI	Approx O.D x Length mm	MRP/PC EURO
40	29 x 116	3.20

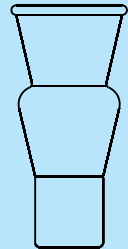


S8340

S8800 - ADAPTERS

Enlarging Interchangeable Joints.

Joint Size Outer	Joint Size Inner	MRP/PC EURO
19/26	14/23	3.00
24/29	14/23	3.75
24/29	19/26	3.75
29/32	19/26	4.55
29/32	24/29	4.55
34/35	19/26	5.75
45 /40	34/35	5.88

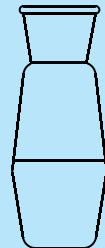


S8800

S8820 - ADAPTERS

Reducing Interchangeable Joints.

Joint Size Outer	Joint Size Inner	MRP/PC EURO
14/23	19/26	3.00
14/23	24/29	3.75
19/26	24/29	3.75
19/26	29/32	4.55
19/26	34/35	5.75
24/29	29/32	4.55
24/29	34/35	5.75
24/32	34/35	5.88
29/32	40/38	6.55
34/35	45/40	6.85

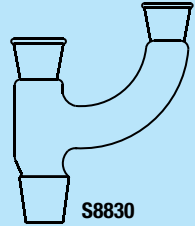


S8820

S8830 - ADAPTERS

Two Necks Parallel.

Cone	Socket	MRP/PC EURO
B10	B10	1.82
B14	B14	1.82
B19	B19	2.18
B19	B14	2.45
B24	B19	2.45
B24	B24	3.45
B29	B19	3.45
B29	B24	3.55
B29	B29	3.65
B34	B19	3.64
B34	B24	3.27
B34	B29	4.00
B34	B34	4.25
B40	B24	5.35
B40	B29	5.65
B40	B34	6.82
B45	B24	7.18
B45	B29	6.82
B45	B34	7.18
B50	B24	6.82
B50	B29	7.18
B50	B34	6.82
B55	B19	7.18
B55	B24	7.82
B55	B29	8.00
B55	B34	9.00

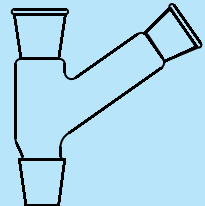


S8830

S8840 - ADAPTERS

Two Necks One Vertical And One At Angle.

Cone	Socket	MRP/PC EURO
B14	B14	2.00
B19	B14	2.27
B19	B19	2.35
B24	B14	2.73
B24	B19	2.91
B24	B24	3.27
B29	B19	3.45
B29	B24	3.55
B29	B29	3.64
B34	B19	3.82
B34	B24	4.10
B34	B29	4.27
B34	B34	5.36



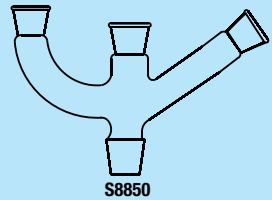
S8840

S8850 - ADAPTERS

Three Necks, Two Parallel And One At Angle.



Cone	Socket	MRP/PC EURO
B14	B14	3.10
B19	B14	3.25
B24	B14	3.64
B24	B19	3.64
B24	B24	3.91
B29	B24	4.00
B29	B24	4.28
B29	B29	4.91
B34	B24	5.25
B34	B24	5.35
B34	B29	5.64
B34	B34	6.00
B40	B24	6.64
B40	B34	6.89
B40	B24	7.64
B40	B34	6.36
B45	B24	6.65
B45	B24	6.91
B45	B29	7.55
B45	B34	7.25
B50	B24	7.55
B50	B29	7.95
B50	B24	8.27
B50	B24	8.55
B55	B24	8.27
B55	B24	8.55
B55	B34	10.55

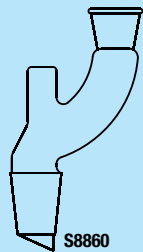


S8850

S8860 - ADAPTERS

Swan Neck For Use With Airleak Tube.

Socket	Cone	MRP/PC EURO
B14	B14	2.18
B19	B19	2.36
B19	B24	2.55
B24	B24	2.73

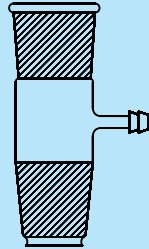


S8860

S8870 - ADAPTERS

Socket To Cone With 'T' Connection.

Joint Size Outer	Joint Size Inner	MRP/PC EURO
B10	B10	1.55
B14	B14	1.65
B14	B19	1.75
B14	B24	2.00
B19	B19	1.82
B19	B24	2.00
B19	B29	2.10
B19	B34	2.20
B24	B24	2.35
B24	B34	2.45
B29	B29	2.64
B34	B34	3.36

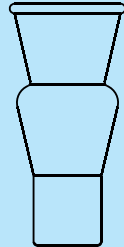


S8870

S8880 - ADAPTERS

Cone Or Socket Straight Connection Plain.

Socket	MRP/PC EURO
B10	0.91
B14	0.91
B19	1.00
B24	1.09
B29	1.27
B34	1.65

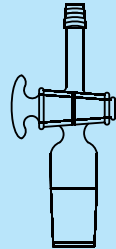


S8880

S8890- ADAPTERS

Cone Adapters , Straight Connection.

Cone	MRP/PC EURO
B10	2.45
B14	2.65
B19	2.82
B24	2.91
B29	3.64
B34	3.82

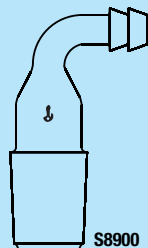


S8890

S8900 - ADAPTERS

Cone Adapters Angle Connection.

Cone	MRP/PC Rs.
B10	0.91
B14	0.91
B19	1.00
B24	1.18
B29	1.27
B34	1.65

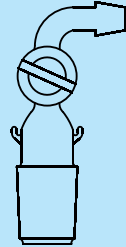


S8900

S8910 - ADAPTERS

Cone Adapters , Right Angle Connection With Stop-cock.

Cone	MRP/PC EURO
B10	2.45
B14	2.64
B19	2.88
B24	2.91
B29	3.65
B34	3.85

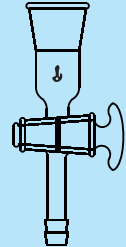


S8910

S8920 - ADAPTERS

Socket Adapters , Straight Connection With Stop-cock.

Cone	MRP/PC EURO
B10	2.45
B14	2.64
B19	2.85
B24	2.91
B29	3.65
B34	3.88

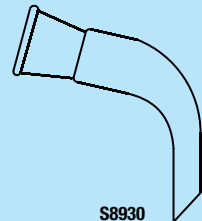


S8920

S8930 - ADAPTERS

Receiver Plain Bend Short.

Socket	MRP/PC EURO
B10	0.82
B14	0.95
B19	1.05
B24	1.20
B29	1.60
B34	1.80
B55	3.00



S8930

S8940 - ADAPTERS

Receiver Plain Bend Long.

Socket	MRP/PC EURO
B10	0.90
B14	1.10
B19	1.20
B24	1.35
B29	1.75
B34	1.82
B55	3.35



S8940

S8950 - ADAPTERS

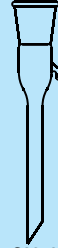
Receiver Straight Delivery.

Socket	MRP/PC EURO
B10	0.82
B14	0.91
B19	1.10
B24	1.20
B29	1.60
B34	2.10
B55	3.00

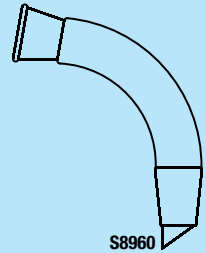
S8960 - ADAPTERS

Receiver Plain Bend Socket To Cone.

Socket	Cone	MRP/PC EURO
B10	B10	1.35
B14	B14	1.45
B14	B19	1.45
B14	B24	1.65
B14	B29	1.75
B19	B14	1.55
B19	B19	1.65
B19	B24	1.75
B19	B29	1.85
B19	B34	2.45
B24	B14	1.75
B24	B19	1.75
B24	B24	1.82
B24	B29	2.35
B24	B34	2.55
B29	B14	1.75
B29	B19	2.00
B29	B24	2.35
B29	B29	2.55
B29	B34	2.75
B34	B14	2.45
B34	B19	2.45
B34	B24	2.55
B34	B29	2.75
B34	B34	3.18
B40	B40	3.55
B45	B45	4.82
B50	B50	5.82
B55	B24	5.45
B55	B29	5.65
B55	B34	6.00
B55	B55	7.55



S8950

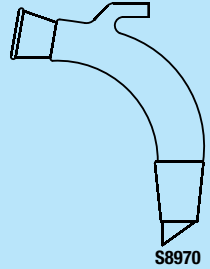


S8960

S8970 - ADAPTERS

Receiver , Bent With Vent, Socket To Cone.

Socket	Cone	MRP/PC EURO
B10	B10	1.55
B14	B14	1.65
B14	B19	1.75
B19	B14	1.75
B19	B19	1.85
B19	B24	2.00
B24	B19	2.00
B24	B24	2.35
B29	B29	2.65
B34	B34	3.35

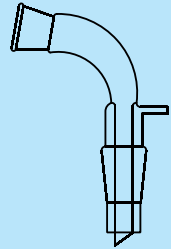


S8970

S8980 - ADAPTERS

Receiver , Bent With Vacuum Connection, Socket To Cone.

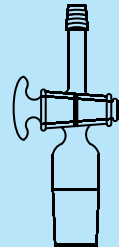
Socket	Cone	MRP/PC EURO
B14	B14	1.82
B14	B19	2.20
B19	B19	2.20
B19	B24	2.55
B24	B19	2.55
B24	B24	3.00
B29	B29	3.55
B29	B34	3.55
B34	B24	3.55
B34	B34	4.35
B34	B55	4.35



S8990 - ADAPTERS

Receiver, Vertical With Vacuum Connection

Socket	Cone	MRP/PC EURO
B19	B19	2.25
B19	B24	2.65
B24	B24	3.00
B34	B34	4.85

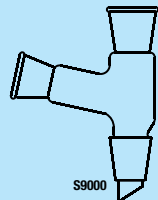


S8990

S9000 - ADAPTERS

Receiver, Bent With Socket Connection.

Socket	Cone	MRP/PC EURO
B14	B14	2.15
B19	B19	2.45
B19	B24	2.85
B24	B24	3.15

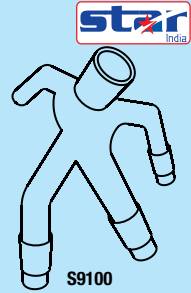


S9000

S9100 - ADAPTERS

Receiver Adapter Bent With Multiple Connection.

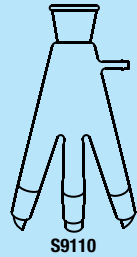
Socket	Cone	MRP/PC EURO
B10	B10	6.55
B14	B14	7.15
B14	B19	7.75
B24	B19	7.75
B24	B24	7.75



S9110 - ADAPTERS

Receiver Adapter , Multi - Limd Vacuum.

Socket	Cone	MRP/PC EURO
B19	B14	9.55
B24	B24	9.55



S9120 - ADAPTERS

Receiver Adapter, Vertical Delivery, Socket To Cone.

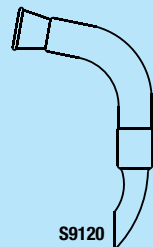
Socket	Cone	MRP/PC EURO
B19	B14	2.91
B24	B24	4.00



S9130 - ADAPTERS

Receiver Adapter, Sloping Delivery.

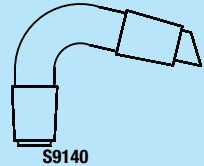
Socket	Cone	MRP/PC EURO
B19	B14	3.25



S9140 - STILL HEAD

Recovery Bend , Sloping.

Flask Cone	Condenser Cone	MRP/PC EURO
B 14	B 14	0.91
B 19	B 19	1.10
B 24	B 14	1.35
B 24	B 19	1.35
B 24	B 24	1.65
B 29	B 19	1.82
B 29	B 24	2.55
B 29	B 29	2.45
B 34	B 19	2.55
B 34	B 24	2.73
B 34	B 29	3.18
B 34	B 34	3.36
B 40	B 34	3.45
B 40	B 40	3.55
B 45	B 24	3.85
B 45	B 29	4.00
B 45	B 34	5.10
B 55	B 24	5.18
B 55	B 29	5.35
B 55	B 34	5.85
B 55	B 55	6.95



S9150 - STILL HEAD

Receiver, Bend Vertical.

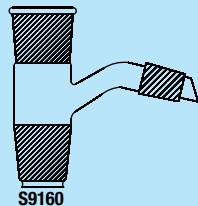
Flask Cone	Condenser Cone	MRP/PC EURO
B 14	B 14	1.91
B 19	B 14	2.00
B 19	B 19	2.25
B 24	B 14	2.35
B 24	B 19	2.75
B 24	B 24	2.95
B 34	B 24	4.75
B 34	B 34	6.25



S9160 - STILL HEADS

Plain Still Head , Slopping Receivory.

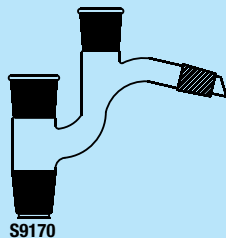
Flask Cone	Condenser Cone	MRP/PC EURO
B 10	B 10	1.85
B 14	B 14	1.85
B 19	B 19	2.00
B 24	B 19	2.15
B 24	B 24	2.35
B 29	B 19	2.55
B 29	B 29	3.10
B 34	B 19	3.25
B 34	B 24	3.35
B 34	B 34	6.18
B 55	B 34	10.00



S9170 - STILL HEADS

Still Head Claisen , Slopping Receivory.

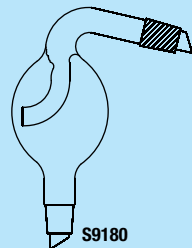
Flask Cone	Condenser Cone	MRP/PC EURO
B 14	B 14	3.25
B 19	B 19	3.55
B 24	B 24	3.85
B 24	B 24	4.15
B 29	B 29	5.35
B 34	B 34	6.65
B 34	B 34	7.15



S9180 - SPLASH HEADS

Splash Head, Pear Shape, Slopping.

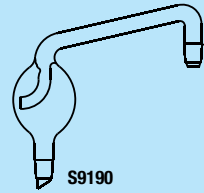
Flask Cone	Condenser Cone	MRP/PC EURO
B 19	B 19	2.73
B 24	B 19	2.91
B 24	B 24	3.10
B 29	B 29	3.82
B 34	B 19	4.35
B 34	B 24	4.55
B 34	B 29	4.75
B 34	B 34	5.27



S9190 - SPLASH HEADS

Splash Head, Pear Shape , Vertical.

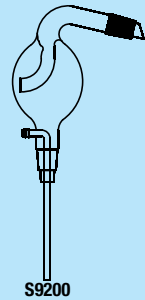
Flask Cone	Condenser Cone	MRP/PC EURO
B 19	B 19	3.10
B 24	B 19	3.45
B 24	B 24	4.00
B 34	B 19	4.75
B 34	B 24	5.18
B 34	B 34	5.95



S9200 - SPLASH HEADS

Splash Head, Steam Distillation With Inlet Tube, Pear Shape, Slopping.

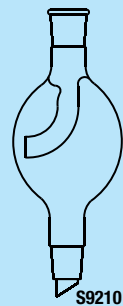
Flask Cone	Condenser Cone	MRP/PC EURO
B 19	B 19	3.75
B 24	B 19	3.95
B 24	B 24	4.45
B 34	B 19	5.00
B 34	B 24	5.35
B 34	B 29	8.85
B 34	B 34	6.35



S9210 - SPLASH HEADS

Splash Head, Adapter , Vertical.

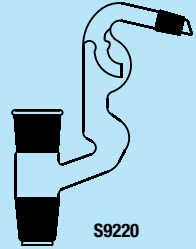
Flask Cone	Condenser Cone	MRP/PC EURO
B 14	B 14	2.75
B 19	B 19	3.00
B 24	B 19	3.15
B 24	B 24	3.45
B 34	B 19	4.25
B 34	B 24	4.45
B 34	B 29	5.35
B 34	B 34	5.45



S9220 - SPLASH HEADS

Splash Head, Double Bulb Stopping.

Flask Cone	Condenser Cone	MRP/PC EURO
B 14	B 14	5.11
B 19	B 19	5.45
B 24	B 19	6.00
B 24	B 24	6.35
B 34	B 19	6.75
B 34	B 24	7.00
B 34	B 29	7.75
B 34	B 34	9.45



S9230 - STEM INLET TUBES

Airleak / Steam / Gas Inlet Tubes Straight.

Cone Size	MRP/PC EURO
B 10	1.45
B 14	1.55
B 19	1.65
B 24	1.88
B 29	2.15
B 34	2.35



S9240 - STEM INLET TUBES

Airleak / Steam / Gas Inlet Tubes, Sparger.

Cone Size	MRP/PC EURO
B 10	1.45
B 14	1.55
B 19	1.65
B 24	1.85
B 29	2.15
B 34	2.35



S9250 - THERMOMETER.

Thermometers Pocket Sort, Closed End.

Cone Size	MRP/PC EURO
B 14	1.18
B 19	1.45
B 24	1.64
B 29	2.00
B 34	2.36



S9250

S9260 - THERMOMETER

Thermometers Pocket , Long Type.

Cone Size	Length mm	For Flask ml	MRP/PC EURO
B 14	100	500	1.63
B 19	100	500	1.75
B 24	100	500	2.00
B 29	100	500	2.38
B 34	100	500	2.88
B 14	150	1000	1.75
B 19	150	1000	2.00
B 24	150	1000	2.25
B 29	150	1000	2.50
B 34	150	1000	3.00
B 14	200	2000 - 5000	2.00
B 19	200	2001 - 5000	2.13
B 24	200	2002 - 5000	2.50
B 29	200	2003 - 5000	2.90
B 34	200	2003 - 5000	3.38
B 14	280	10000	2.13
B 19	280	10000	2.38
B 24	280	10000	2.75
B 29	280	10000	2.25
B 34	280	10000	3.63
B 14	345	20000	2.38
B 19	345	20000	2.50
B 24	345	20000	2.90
B 29	345	20000	3.38
B 34	345	20000	3.75



S9260

S9800 - TEST TUBES

Test Tube With Rim.

Cap. Ml	MRP/PC EURO
10x75	0.08
12x75	0.09
12x100	0.11
15x125	0.15
15x150	0.18
18x150	0.19
25x100	0.26
25x150	0.30
25x200	0.38
32x200	0.60
38x200	0.75



S9800

S9820 - TEST TUBES

Test Tubes (Culture) , Without Rim.

Cap. Ml	MRP/PC EURO
10x75	0.08
12x75	0.08
12x100	0.11
15x125	0.15
15x150	0.18
16x150	0.16
18x150	0.20
25x100	0.26
25x150	0.30
25x200	0.38
32x200	0.60
38x200	0.71
25x200	0.38
32x200	0.60
38x200	0.71



S9820

S9900 - TEST TUBE CULTURE

Test Tubes, Culture Media, Round Bottom, With Screw Cap And Rubber Liner.

Cap. Ml	Approx O.D x Length mm	MRP/PC EURO
5	16 x 75	0.33
10	16 x 125	0.36
30	25 x 100	0.55
60	25 x 200	0.64



S9900

S9910 - TEST TUBES CULTURE

Test Tubes, Culture Media, Flat Bottom, With Screw Cap And Rubber Liner.

Cap. MI	Approx O.D x Length mm	MRP/PC EURO
5	16 x 50	0.33
15	25 x 57	0.35
30	25 x 95	0.55



S9910

S992 - CAPS- BAKELITE

Screw Cap Only, With Rubber Liner

Cap. MI	MRP/PC EURO
5 & 10	0.06
15 to 60	0.08



S992

S9911 - TEST TUBES

Neutral Glass Test Tubes.

Cap. MI	MRP/PC EURO
10 x 75	0.05
12 x 75	0.05
12 x 100	0.05
15 x 125	0.07
15 x 150	0.08
16 x 100	0.09
18 x 150	0.09

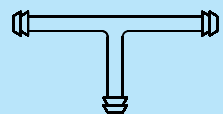


S9911

S9912 - T-TUBES

Connection Tubes , T-Shape.

Length x Dia mm	MRP/PC EURO
40 x 6	0.55
50 x 8	0.60
60 x 10	0.75
80 x 12	1.25

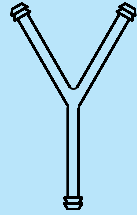


S9912

S9913 - Y-TUBES

Connection Tubes , Y -Shape.

Length x Dia mm	MRP/PC EURO
40 x 6	0.55
50 x 8	0.58
60 x 10	0.73
80 x 12	1.27

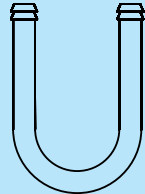


S9913

S9914 - U-TUBES

Connection Tubes, U - Shape.

Length x Dia mm	MRP/PC EURO
40 x 6	0.55
50 x 8	0.65
60 x 10	0.75
80 x 12	1.27

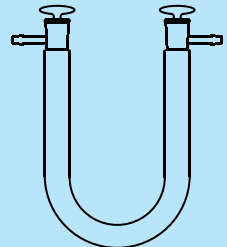


S9914

S9915 - U-TUBES

Calcium Chloride Tubes , U -Shape With Side Tube And Stopper.

Length x Dia mm	MRP/PC EURO
100 x 14	4.75
125 x 16	5.45
150 x 18	6.00



S9915

TERMS AND CONDITIONS :

The following terms and conditions of sales and payment shall be applied to all items exactly as per catalogue. Any deviation in design can lead to price variation. Acceptance of items supplied binds acceptance of these terms.

- All prices are inclusive of Local & Central Sales tax.
- Price are in EURO and per pieces basis, prices changes only subject to quantity Basis.
- Prices are subject to change without prior notice. Prices applicable on the dated of supply shall be valid.
- Supply shall be made as per delivery dates. Due to the unforeseen forces these dates are not in any way binding, however we shall maintain the schedules as committed.
- All other Government statutory and levies shall be applicable as extra.
- For all matter subject to Vadodara, INDIA Jurisdiction only.
- Bulk requirement of any single item can be considered at special price, for specific needs of actual user.

LABORATORY GLASS DIVISION