



The Transparent Specialist



LAB CATALOGUE



GOEL SCIENTIFIC GLASS WORKS LTD.

www.goelscientific.com

GORT'S GLASSWORK LTD is one of the leading specialist glass fabricators in the world, who has made its name in the glass industry worldwide by its reputation in the global market. As the world's largest producer of all types of glass containers and one representing & supplying the most & diverse worldwide demand, we have over 100 manufacturing centres across the globe to ensure 24/7 service.

All Gort's glass products are made from raw material from various leading manufacturers for its production. On request, we also provide glass parts from leading European countries such as leading supplier which fulfills all major standards of ISO 9001:2015 & ISO 14001:2015. Also, we are the offering high quality & excellent after sales services who is a total solution for your production as well as logistic.

In recognizing the Glass of the Best, we have Glass with the performance combined with our pioneering of Future Investment & Growth in our state of engineering being "The Temperature Specialist".

As a specialist in design, fabrication, engineering, installation & commissioning of Plant, Process Plant & Standard Installation for the Process & Development. Also, we have an extensive, laboratory, testing & related work from global clients like ISO 9001, ISO 14001, ISO 9000, ISO 22000, ISO 22716, OTC, etc. also related partners are available with CE Marking & documentation with wide dimensions etc.

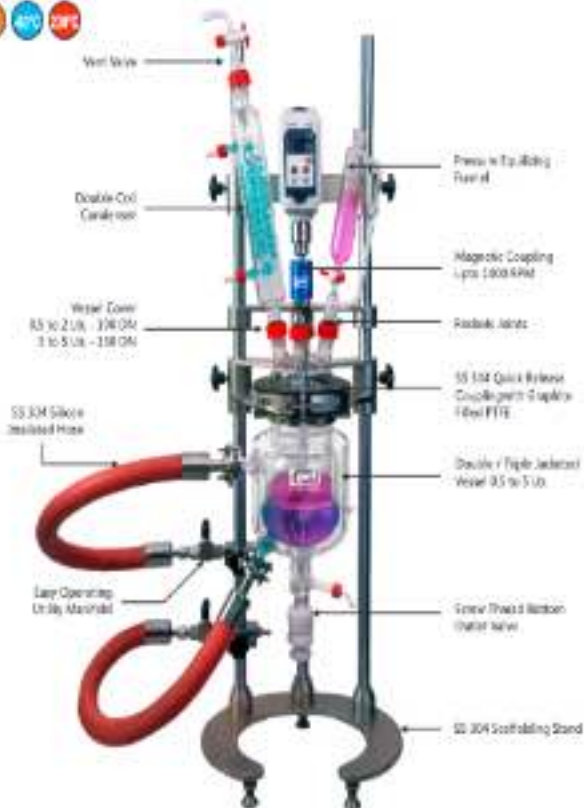
As the best and top engineering of glass equipment for the world's global market. Also, we have a team of specialist technicians

GROWTH PATH

- 2005: Developed the unique STRONG-BWGL, which provides a lightning-quick strength as high as 1 tonne per square centimetre and also offers absolute leakage and breakage protection under lightning.
- 2006: Introduced Glass 2000 for food and beverage for the first time in Indian market.
- 2006: Started Process Plant Division for the development of New Products.
- 2006: Started manufacturing Spherical vessels from an entirely new technique very first time in the world, making it a cost-effective and maintenance-free product.
- 2008: Received the Best ISO-9001 certified company in the "Glass Equipment Manufacturing" category in India.
- 2002: Successfully executed export order of 640,000 multi-necked flasks within a time period of 6 months.
- 2000: Developed 300-litre Spherical Vessel & participated as exhibitor in AICHEM-2000, Frankfurt, Germany.
- 2004: ISO 9001 product manufacturing certified in India.
- 2005: Manufactured 500-litre Spherical Vessel.
- 2006: Participated in AICHEM-2006 for 2nd time & given certificate as "Jumbo Rotary" at Frankfurt, Germany.
- 2007: Developed T-DRUM (Vertical rotating) for food and beverage.
- 2008: Awarded for outstanding performance for the year 2006 - 07 by Govt. of Gujarat, Ministry of Ind. & Mines.
- 2009: Manufactured for the first time 800-litre kettle and participated in AICHEM-2009 at Frankfurt, Germany for the consecutive 3rd time.
- 2010: Developed for Double Jacketed Vessel (Triple Wall - Detachable jacket).
- 2011: Developed for Jacketed vertical vessel up to 2000 capacity.
- 2012: Participated in AICHEM-2012 for 4th time & presented Triple Wall Glass Reactor.
- 2013: Successfully supplied, 1st time, Anhydrous HCL Gas Generator by Calcium Chloride Bed & developed Double Bed & Tubed Heat Exchanger.
- 2014: Entered into Decorative Glass segment with brand "D-Boss". Developed Glass Spherometer up to 200.
- 2015: Awarded for outstanding export performance by Hon'ble CM of Gujarat, 1st Award for Best and 2000 DM (Export) awarded for the best performance. Participated in AICHEM for the 5th time.
- 2016: Received Award for "Quality Products in India & New State of India" by King Willem-Alexander of NETHERLANDS (The Netherlands).
- 2017: Started supplying Eco-friendly glass bottles and jars.
- 2018: Successfully design, develop and supplied a 2000 Capacity reactor unit.
- 2018: Successfully design, develop and supplied HCL and HNO₃ Purification unit.
- 2018: Develop and supplied 240 mounted stainless steel Recovery unit successfully.
- 2021: Develop 1.5-litre Rotary Evaporator with modular design "Mini-DMG". Developed "L10 Glass Reactor" suitable for Chemical Process Unit.

Lab Glass Reactor

Spare & Accessories on Page no. 26-28



One of the prime endeavor and proud moment for "GOEL Scientific Glass Works Ltd." to have designed lab glass reactor for the convenience of chemical scientists, R&D and Lab fraternity, who make wonderful use of standard glass equipment to accomplish desired results and innovations.

"Lab Glass Reactor" has become very convenient, essential, and integral part of chemical processing units to accomplish desired results which is a standard equipment. **Make in India.**

Technical Specifications & Components of Lab Glass Reactor

1. 0.5 Ltr to 5 Ltr Double / Triple Wall Jacketed reactor with 100 DN / 150 DN Duran glass Flange with grr vee - Made from Schott Duran Glass tubing
 Primary Reactor - For Reaction
 Double Wall Reactor - For Utility Distillation (-60°C to 200°C)
 Triple Wall Reactor - for Full Vacuum sealed jacket to prevent energy loss & to maintain transparency during condensation at -30°C.



2. Fixed type bottom outlet valve with Screw Thread operating



3. 100 DN/150 DN Duran Glass Flange cover with DURAN® RODAXIS® Joints - Made from Schott Duran Glass tubing



4. 100 DN/150 DN "O" Ring Valve / PTFE/FFEM (Perfluoro elastomer)



5. SS304 Quick release heavy duty coupling with Graphite Filled Teflon material

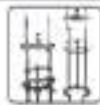


6. SS Magnetic Drive for Glass reactor



8. Pressure Equalizing funnel with DURAN® RODAXIS® Joints

9. High Efficiency 210 mm Long Double coil Condenser with DURAN® RODAXIS® Joints



10. Unique Support system SS304 Scaffolding stand with Kinkless Knob with SS304 screw



11. Over Head Stirrer Drive

12. Digital Temperature Indicator PT100 PTR Coated sensor (-60 to 300°C)



13. SS304 Insulated hose with Manifold Connection System with flexible movement

In addition to range of glassware, we also supply Benchtop Lab Glass Reactors. This includes steel vessels (Double or Triple walled) from 0.5 L to 5L. In addition we have all the glass components you are likely to need such as condensers, receivers, addition funnels, reflux dividers etc.

Our Benchtop Lab Glass Reactors include easy accessibility through open support frame, rear slanted from German made Borosilicate glass and a minimal dead space with many other standard and optional features.

Key Specifications

- ✓ Reactor Volume: 0.5 L to 5 L
- ✓ Reactor Type: Double Walled & Triple Walled
- ✓ Operating Pressure: Full Vacuum to 0.5 bar (g)
- ✓ Gear Motor with Inbuilt Digital Indicator for Speed Range 50 to 1000 RPM
- ✓ Thermal Shock Resistance: (D1) 60°C for Triple Walled and 110°C for Double Walled Reactors.
- ✓ Standard GL Threads for Inlet and Outlet. (Inlet and Outlet can be supplied with beveled process pipe)

Sl. No	Item	Additional Funnel(s)	Condenser Length(m)	Double Wall Jacketed Unit Code	Triple Wall Jacketed Unit Code	L x B x H
1	0.5 Lit Lab Glass Reactor Assembly (100 DM)	00	10	DR-00.5	TR-00.5	400 x 300 x 1100
2	1 Lit Lab Glass Reactor Assembly (100 DM)	00	10	DR-01	TR-01	400 x 300 x 1100
3	3 Lit Lab Glass Reactor Assembly (100 DM)	00	10	DR-03	TR-03	400 x 300 x 1100
4	3 Lit Lab Glass Reactor Assembly (150 DM)	20	10	DR-03	TR-03	220 x 500 x 1400
5	5 Lit Lab Glass Reactor Assembly (100 DM)	00	10	DR-05	TR-05	600 x 500 x 1400

SALIENT FEATURES:

- ✓ Reactors equipped with the flush bottom valve of the special type to ensure leak-free sealing over entire temperature range.
- ✓ All reactors are designed to keep L/D Ratio within 1.5 (max) for performance and easy scale up. L/D ratio may be changed on request.
- ✓ All These Reactors are designed GMP.
- ✓ Manufacture From German Raw Material.
- ✓ Ideal for use in fume hoods (SSMS).
- ✓ Stirrer with variable seal (Mechanical, Stuffing Box, Magnetic Seal, High Vacuum Stuffing Box).
- ✓ Skid mounted and quick release coupling for ease of installation and dismantling.
- ✓ Overhead drive motor with built-in speed controller and display.
- ✓ Interchangeable Stirrer (Anchor/Propeller/Turbine) as per your suitability.

OPTIONAL

- ◆ Inverse Flow ◆ Digital Temp Indicator ◆ On/Off ◆ Heating/Cooling System ◆ Mobility Support

Email: labreactor@goelscientific.com

GREV

GOEL's premium edition GREV Rota-E-Vap "Make-In-India" is first in its class specially designed lab scale equipment for laboratory and R&D purpose. This premium edition of rotary unit is another step towards CUSTOMER DELIGHT through automation & innovation. We, in GOEL always make our products precise, reliable, efficient and versatile for the convenience and to meet the highest expectations of the user.

Our modular design enables the users of Rota-E-Vap to speed up the process with a fully integrated system having 7 inches Touch screen HMI interface which centrally controls and regulates all machine components and process.

PROCESS ON TOUCH...

Recipe Management System to
Speed-up Process

Data Retrieval for Test Parameters
Mapping and Set-up for Analysis

Rota-E-Vap
Another Step Towards Automation



Technical Specifications

Rotar-E-Vap	ORIV
Rotation Speed Range (RPM)	up to 280
Rotation Speed Display	7" HMI LCD Color Display+Touch Screen operation enabled
Rotation Direction control	Clockwise / Anticlockwise
Lifting	Motor self
Height Adjustment (mm)	130 mm (Motorised Lift)
Temp. Range (°C)	180 (Expandable up to 280)
Temp. Controller Display	7" LCD Color Display with Touch Control
Temp. Controller Mode	Electronic / Digital
Temp. Control Accuracy	±1 °C
Heating Power (W)	1200
Bath Capacity	4.5 Litres
Bath Diameter (mm)	240 mm (Saves heating media & quicker temperature achieve)
Material of Heating Bath	SS 316
Condenser Type	Vertical
Condenser Cooling Area (cm ²)	2000
Dimensions (L x W x H) mm	735 x 150 x 600 mm
Power Supply	Single-Phase-230 VAC, 50/60 Hz
Total Power (Watt)	1400
Programmable operations	Yes, Suitable for Library set-up & data back-up Ints. In RS232 interface to connecting Remote controlling Special GFT with Teflon bush and Silicon O-Ring 1000ml to 3000ml (Special 50ml & 100ml also available)
Sealing ring	Yes, Vapor temperature sensor & display configured
Suitable Flask Size/Capacity	Yes, Suitable
Display vapor temperature required accessories	Yes, Chamber temperature sensor configured
Integrated Vacuum controller	Yes, Suitable
Integrated Chiller controller	Yes, Suitable
Timer	Yes, Suitable
Vacuum program DNA mode	Configurable available
Ints. In AUTO accessible details	NA / (Auto lift up at power failure available)
Programmable temps	Yes, Suitable
HMI Programmable	Yes, Suitable
Recipe Set	Yes, Suitable
Data logging	Yes, Suitable
Warranty (years)	1
Vapor Tube	Vapor tube with notch locking & connecting clip
Overheat Protection	Heating Safety cutoff at 1°C over set value; auto stop to achieve set value
Safety Stop	Automatic operation stop by power failure Lift flask automatically out of heating bath
Operating conditions	10 - 31°C at 80 % rel. humidity 32 - 40°C decreasing linearly up to max. 50% rel. humidity 25° - 40°
Installation angle	1000m
Max. altitude above sea level	1000m
Flange connection to condenser	Ex-In connection with threaded coupling

TECHNICAL INFORMATION

Laboratory work requires apparatus made in Borosilicate 3.3 expansion glass which offers maximum inertness to widest range of chemical substances, withstand thermal shock, high temperature without deforming and resilient enough to withstand the normal laboratory handling, washing and sterilizing processes.

Borosilicate glass represents unmatched standardised glass for construction of Laboratory Glassware. Its steadily growing use is due to many advantages over conventional materials.

- Outstanding corrosion resistance
- Smooth pore and surface.
- Transparency
- Catalytic inertness
- No effect on taste and colour
- Physiological inertness

Borosilicate glass is chosen for its unique chemical and physical properties. Borosilicate glass can be considered as being composed of Oxides. Silica (SiO_2), Boron oxide (B_2O_3) and Phosphorus Pentoxide (P_2O_5) are chief glass form Oxides. Soda (Na_2O), Lime (CaO), Alumina (Al_2O_3), Potash (K_2O), Magnesia (MgO) and Lead Oxide (PbO) are the principle modifiers.

CHEMICAL COMPOSITION

The composition of borosilicate glass as such has following approximate composition.

SiO_2 - 80.5%	B_2O_3 - 12.6%
Na_2O - 4.5%	Al_2O_3 - 2.2%

RESISTANCE TO CHEMICALS

Borosilicate glass is inert to almost all acids salts except hydrofluoric acid (HF), phosphoric acid (H_3PO_4) and hot strong caustic solutions. Of these, Hydrofluoric acid has the most serious effect, even when it is present in PPM (parts per million) in solutions. Whereas phosphoric acid and caustic solutions cause no problems when cold but at elevated temperature corrosion occurs. In case of caustic solutions upto 33% 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. Thus, corrosion by caustic solutions can not be predicted.

THERMAL PROPERTIES

Linear coefficient of thermal expansion of borosilicate glass over the temperature 0-300 °C is 5.5×10^{-7} /°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 0.233 Kcal/Kg °C.

THERMAL CONDUCTIVITY

Thermal conductivity is 1.0 Kcal/hr. m² °C over the permissible operating temperature range.

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 or cooling.

MECHANICAL PROPERTIES

The lack of ductility of glass prevents the equalization of stresses at local irregularities or flaws and its breakage strength varies considerably about a mean value. This failure is found to occur at a tensile strength of about 700 kg/cm².

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 specified level of working pressure.

OPTICAL PROPERTIES

Borosilicate glass shows no appreciable absorption in the visible region of spectrum and therefore appears clear and colorless. In photo chemical process the transparency of ultra violet is of particular importance. It follows from the transmittance of material in UV region that photochemical reactions such as chlorination & sulphochlorination can be performed in it.

CARE AND MAINTENANCE

SAFE USE OF GLASSWARE

When heated with proper care Laboratory Glassware 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 by thermal shock.
- * Glass if heated beyond certain temperatures, may acquire a permanent stress on cooling which could cause subsequent breakage.

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 vessels slowly to avoid thermal breakage.
4. Never apply heat to badly scratched or etched vessel to prevent chances 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 contracted 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 porcelain 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 are best heated with the use of an electric immersion heater and should not be subjected to direct flame or other localized heat source.
10. Do not heat glassware over electric heaters with open elements to avoid localized 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 or sure to follow manufacturer's instructions.

MIXING AND STIRRING

1. To prevent scratching inside the vessel always use a 'policeman' or similar device on stirring rods.
2. When using a glass vessel with a magnetic stirrer always use a covered follower to prevent abrasion the or 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 or vacuum.
2. Never use glassware beyond the recommended safe limit.
3. Gradually apply and release positive and negative pressures and avoid 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 greases are commonly used on standard taper joints. Most laboratory solvents, including acetone, can readily remove greases.
(b) For higher temperatures 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, glyceric 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 wash outer surface of bottle with water.
4. Mercury shall be store in sealed containers as its toxicity. Toxicity is cumulative and element's ability to amalgamate with a number of metals is well known.
5. Never taste or smell or drink them unless for identification and never drink from a beaker.
6. When using concentrated acids, alkalis or potentially hazardous materials use mechanical means of pipetting. Avoid pipetting by mouth.
7. Label all containers before filling. Never fill unlabeled containers or 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. Splashing 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 designated area.
12. In working with volatile materials, remember that heat causes expansion and confinement of expansion results 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 (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 deterioration of the meniscus and accuracy of volume.

GENERAL CLEANING

1. Experienced personnel must safely undertake cleaning of glassware which contain hazardous materials.
2. Most new glassware is slightly alkaline in reaction. For precise chemical tests, new glassware should be soaked several hours in acid water (1% solution hydrochloric acid or nitric acid) before wetting.
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 as cleaning agent. The dichromate should be handled with extreme care as it is highly 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 shall be removed by weak sodium carbonate solution or acetone or fat solvents and use of strong alkali shall be avoided.
7. Hot water with recommended detergents should be used and if glass is exceptionally dirty a cleaning powder with a mild abrasive action may 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 reactions. After cleaning, thoroughly rinse with tap water ensuring that containers are partly filled water, shaken and emptied several times. Finally rinse with deionized or distilled water.

INDEX

LAB GLASS REACTOR	01
Rota-E-Vap	04
TECHNICAL INFORMATION	06
CARE AND MAINTENANCE	08
PERSONAL SAFETY	10
CLEANING	11
BEAKERS GRIFFIN, LOW FORM, WITH SPOUT, GRADUATED	15
BOTTLES, ASPIRATOR WITH OUTLET FOR STOPPER	15
BOTTLES, ASPIRATOR, WITH INTERCHANGEABLE STOPPER AND STOPCOCK	15
BOTTLES, REAGENT, AMBER, NARROW MOUTH WITH INTERCHANGEABLE FLATHEAD STOPPER	16
BOTTLES, REAGENT, PLAIN NARROW MOUTH, WITH INTERCHANGEABLE FLAT HEAD STOPPER	16
BOTTLES, REAGENT, SCREW CAP, PLAIN WITH GLUE	16
BOTTLES, REAGENT, SCREW CAP, AMBER WITH GLUE	17
BOTTLES, REAGENT, SCREW CAP, PLAIN WITH GLUE	17
BOTTLES, REAGENT, SCREW CAP, AMBER WITH GLUE	17
BOTTLES, SOLUTION, AMBER, TOOLED NECK	18
BOTTLES, SOLUTION, PLAIN TOOLED NECK	18
DESSICATORS WITH COVER, KNCE TOP	19
DESSICATORS VACUUM, WITH TABULATED COVER, STOPPER, WITH PTFE SPINDLE	19
MICRO FILTER HOLDER ASSEMBLY WITH GROUND GLASS JOINT	20
MICRO FILTER HOLDER ASSEMBLY WITH RUBBER CORK	20
COMPLETE EXTRACTION APPARATUS	20

FLASKS, BOILING, FLORENCE, FLAT BOTTOM	21
FLASKS, BOILING, ROUND BOTTOM	21
REACTION, WIDE MOUTH, FLAT FLANGE	21
LIDS, FOR FLASKS REACTION, FLAT FLANGE AND INTERCHANGEABLE JOINT	22
FLASKS, BOILING, ROUND BOTTOM, SHORT NECK WITH INTERCHANGEABLE JOINT	22
FLASKS, ROUND BOTTOM, THREE NECKS, CENTRE NECK AND TWO ANGLED SIDE NECKS WITH INTERCHANGEABLE JOINT	22
FLASKS, ROUND BOTTOM, THREE NECKS, CENTRE NECK AND TWO PARALLEL SIDE NECKS WITH INTERCHANGEABLE JOINT	23
FLASKS, ROUND BOTTOM, FOUR NECKS, CENTRE NECK AND THREE ANGLED SIDE NECKS WITH INTERCHANGEABLE JOINT	23
FLASKS, ROUND BOTTOM, FOUR NECKS, CENTRE NECK AND THREE PARALLEL SIDE NECKS WITH INTERCHANGEABLE JOINT	23
FLASKS, ERLLENMEYER, GRADUATED, CONICAL, NARROW MOUTH	24
FLASKS, FILTERING, HEAVY WALL, BOLT NECK WITH TUBULATION	24
JARIN FLASKS, FILTERING, HEAVY WALL	25
FUNNELS, SEPARATING, GLOBE SHAPE, WITH PTFE KEY STOPCOCK WITH HOLLOW INTERCHANGEABLE STOPPER	24
FUNNELS, SEPARATING, PEAR SHAPE, WITH PTFE KEY STOPCOCK WITH INTERCHANGEABLE HOLLOW STOPPER	24
DEVAR JAR WITH VACUUM CERTIFICATE	24
FUNNELS SEPARATING, PEAR SHAPE, FITTED WITH PTFE KEY STOPCOCK WITH INTERCHANGEABLE HOLLOW STOPPER	25
MUSEUM JARS	27
JARS, BELL, ROUND BOTTOM, EDGE GROUND	27
JARS, CYLINDRICAL, FERMENTATION	27
BLR- ACCESSORIES & SPARES	28
KEY CONTACT PERSONS	30

TERMS & CONDITIONS

The following terms & conditions of sales and payment shall apply. Any dimensional or design deviation shall attract price revision.

- The price list is effective from Nov 1, 2018 and supersedes all previous prices.
- Prices mentioned are Ex. Works in INR.
- GST 18% Extra. Subjected to change as per Govt. notification.
- All the Govt. statutory and levies shall be applicable extra.
- Shipment / Courier charges Extra.
- Prices are subjected to change without prior notice.
- Case packing as per our standard. We reserve the right to change in case lot as & when required.
- Order shall be place as per quantity specified in master packing.
- Delivery schedule specified is tentative. Request for confirm schedule.
- Insurance in your scope.
- Sales return acceptable only against prior consent.
- We under take manufacturing of special product/item/article for order values above Rs. 2 Lacs.
- We accept Bulk orders at special prices. Please share your requirement.
- All disputes are subjected to Vadodra jurisdiction.

Delivery Schedule Chart

Group A	Items available in Ex. Stock
Group B	Can be manufactured in 2 days
Group C	Can be manufactured in 4 days
Group D	Can be manufactured in 8 days
Group E	Can be manufactured in 16 days
Unspecified	On Request

* Days specified above are estimated actual may differ

BEAKERS

2111 BEAKERS GRIFIN, LOW FORM, WITH SPOUT, GRADUATED

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	PACKING VOL/M	DRDLP
2111/32	5000	170	270	0339	A
2111/35	10000	220	350	0116	A
2111/40	20000	290	400	0112	A



BOTTLES

2351 BOTTLES, ASPIRATOR WITH OUTLET FOR STOPPER

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	APPROX. NECK I.D. MM	APPROX. OUTLET I.D. MM	QTY PER CASE	Group
2351/32	5000	190	320	44	28	1	D
2351/35	10000	220	470	54	28	1	D
2351/40	20000	300	525	54	28	1	D



2358 BOTTLES, ASPIRATOR, WITH INTERCHANGEABLE STOPPER AND STOPCOCK

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	APPROX. NECK I.D. MM	APPROX. OUTLET I.D. MM	Qty Per Case	Group
2358/32	5000	190	320	45/48	29/32	1	D
2358/35	10000	220	410	55/44	29/32	1	D
2358/40	20000	300	508	55/44	29/32	1	D



2610
BOTTLES, REAGENT, AMBER, NARROW MOUTH WITH INTERCHANGEABLE FLAT HEAD STOPPER

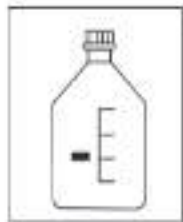
CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	SIZE OF INTERCHANGEABLE STOPPER	PACKING ICM	Group
261002	500	180	325	45/43	1/09	E
261005	1000	220	410	55/44	0/12	E
261010	2000	300	505	55/44	0/12	E


2611
BOTTLES, REAGENT, PLAIN NARROW MOUTH, WITH INTERCHANGEABLE FLAT HEAD STOPPER

CAT. REF. (P.C.)	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	SIZE OF INTERCHANGEABLE STOPPER	PACKING ICM	Group
261102	500	180	320	45/43	1/09	D
261105	1000	220	410	55/44	0/12	D
261110	2000	300	505	55/44	0/12	D


2612
BOTTLES, REAGENT, SCREW CAP PLAIN WITH GLASS (WITH CLASS-A CERTIFICATE)

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	PACKING ICM	Group
261202-45	500	180	320	13/12	D
261205-45	1000	220	410	0/12	D
261210-45	2000	300	505	0/12	D
261215-45	5000	430	680	0/11	D



2013
**BOTTLES, REAGENT, SCREW CAP, AMBER WITH GLAS
(WITH CLASS-A CERTIFICATE)**

CAT REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	PACKING VCM	Group
20130245	5000	100	320	10/12	D
20130545	10000	220	410	0/12	D
20134045	20000	300	505	0/12	D
20134545	50000	430	680	0/17	D


2014
**BOTTLES, REAGENT, SCREW CAP, PLAIN WITH GLAS
(WITH CLASS-A CERTIFICATE)**

CAT REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	PACKING VCM	GROUP
20140280	500	100	350	10/12	D
20140580	1000	220	440	0/12	D
20140980	2000	300	540	0/12	D
20141580	5000	430	680	0/17	D


2015
**BOTTLES, REAGENT, SCREW CAP, AMBER WITH GLAS
(WITH CLASS-A CERTIFICATE)**

CAT REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	PACKING VCM	GROUP
20150280	500	100	300	10/12	D
20150580	1000	220	440	0/12	D
20150980	2000	300	540	0/12	D
20151580	5000	430	680	0/17	D



2888
BOTTLES, SOLUTION, AMBER, TOOLED NECK

CAT. REF.	CAP. ML.	APPROX. C.D. MM	APPROX. HEIGHT MM	APPROX. NECK I. D. MM	PACKING ICM	GROUP
2888/32	5000	190	300	44	12"12	D
2888/35	10000	220	420	64	21"12	D
2888/40	20000	300	525	64	21"12	D


2886
BOTTLES, SOLUTION, PLAN TOOLED NECK

CAT. REF.	CAP. ML.	APPROX. C. D. MM	APPROX. HEIGHT MM	APPROX. NECK I. D. MM	PACKING ICM	Group
2886/32	5000	190	320	44	12"12	D
2886/35	10000	220	430	64	21"12	D
2886/40	20000	300	535	64	21"12	D



MYTH

Glass is Fragile and shall be avoided.

FACT

Glass being fragile cannot be eliminated from the use and is mainly used for its characteristics like (Purely Non-Corrosive, non-reactivity, transparency, shock, appearance, etc.)

Fragility of glass depends on physical impact force.

- Physical impact force is dependent on the handling and a little care can nullify it.
- Tensile strength of glass is weak. This can be enhanced by increasing the thickness of the item and thermal/chemical toughening process.
- Glass has magnificent compressive strength. If a glass is given compressive pressure in between two metallic flanges, under extreme pressure, the glass will remain intact and the metallic flange or the studs may break due to repulsive force. (Request for Demo)



DESICCATORS

4192 DESICCATORS WITH COVER, KNOB TOP

CAT. REF.	SIZE MM	GROUND FLANGE APPROX. I.D. MM	PACKING ICM	GROUP
4192/01	100mm	105	0/1-	E
4192/02	150mm	154	12/12	E
4192/03	200mm	202	0/16	E
4192/04	250mm	260	-11-	E
4192/05	300mm	300	-11-	E
4192/06	500mm	500	-11-	E



4229 DESICCATORS VACUUM, WITH TABULATED COVER, STOPPER, WITH PTFE SPINDLE

CAT. REF.	SIZE MM	GROUND FLANGE APPROX. I.D. MM	INTER-CHANGABLE JOINT SIZE	PACKING ICM	GROUP
4229/01	100mm	106	29/32	0/1-	E
4229/02	150mm	154	29/32	12/12	E
4229/03	200mm	202	29/32	0/16	E
4229/04	250mm	260	29/32	-11-	E
4229/05	300mm	300	29/32	-11-	E
4229/06	500mm	500	31/38	-11-	E



*Vacuum type Desiccators, when ground surface is cleaned & greased, will hold a vacuum of 500 mm of Mercury (Hg) over a 24 hours period.

MICRO FILTER ASSEMBLY

4399

MICRO FILTER HOLDER ASSEMBLY WITH GROUND GLASS JOINT

CAT. REF.	COMPONENTS	Qty Per Case	GROUP
439947	Funnel for 47 size filter base with sintered disc for 34/35 size socket in the stem for 47 size filter spring clamp, 47 size 1000 ml. buchner flask with 34/35 cone	1	E
439948	Funnel for 47 size filter base with sintered disc for 34/35 size socket in the stem for 47 size filter spring clamp, 47 size 2000 ml. buchner flask with 34/35 cone	1	E



4399

MICRO FILTER HOLDER ASSEMBLY WITH RUBBER CORK

CAT. REF.	COMPONENTS	QTY PER CASE	GROUP
439947	Funnel for 47 size filter base with sintered disc for 47 size filter spring clamp, 47 size 1000 ml. buchner flask with cork	1	E
439948	Funnel for 47 size filter base with sintered disc for 47 size filter spring clamp, 47 size 2000 ml. buchner flask with cork	1	E



4851

COMPLETE EXTRACTION APPARATUS

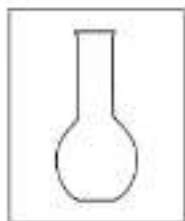
CAT. REF.	CAP. ML.	FLASH SIZE ML.	QTY. PER CASE	GROUP
485101	2000	5000	1	E
485102	6000	10000	1	E
485103	10000	20000	1	E



FLASKS

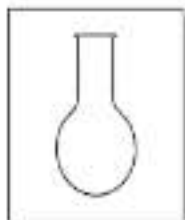
5171 FLASKS, BOILING, FLORENCE, FLAT BOTTOM

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	APPROX. NECK O.D. MM	PACKING ICM	GROUP
517132	5000	223	340	80	109	B
517135	10000	285	420	80	124	B
517140A	20000	350	490	80	174	B
517140B	20000	350	490	75	174	B



5371 FLASKS, BOILING, ROUND BOTTOM

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	APPROX. NECK O.D. MM	PACKING ICM	GROUP
537132	5000	223	300	80	109	A
537135	10000	285	420	80	124	A
537140A	20000	350	505	80	174	A
537140B	20000	350	505	75	174	A



5441 (VESSELS) REACTION, WIDE MOUTH, FLAT FLANGE 190mm I.D., 160 mm O.D.

CAT. REF.	CAP. ML.	APPROX. HEIGHT MM	PACKING ICM	GROUP
544102	5000	200	109	C
544103	10000	300	124	C
544103	20000	400	174	C



5442
LIDS FOR FLASKS REACTION CAT NO.5441, FLAT FLANGE AND INTERCHANGEABLE JOINT

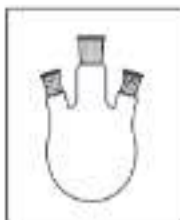
CAT. REF.	INTERCHANGEABLE JOINT SIZE		SIZE W'	SIZE H'	SIZE PER	QTY PC CASE	GROUP
	CENTER	PARALLEL					
54421904	18/26	15/25	24/29	19/26	-	2	B
54421914	18/26	14/23	14/23	14/23	29/33	2	B
54422914	26/32	14/23	14/23	14/23	29/33	2	B
54421904	18/26	15/25	15/26	19/26	34/36	2	B
54422434	24/28	15/25	15/26	19/26	34/36	2	B


5481
FLASKS, BOILING, ROUND BOTTOM, SHORT NECK WITH INTERCHANGEABLE JOINT

CAT. REF.	CAP. ML.	INTER CHANGEABLE JOINT	APPROX. D.D. MM	APPROX. HEIGHT MM	FINISHING JOIN	GROUP
548132	500	34/36	223	300	1/28	B
548133	1300	34/36	295	385	0/24	B
548140	2300	35/34	350	435	0/14	B


5484
FLASKS, ROUND BOTTOM, THREE NECKS, CENTRE NECK AND TWO ANGLED SIDE NECKS WITH INTERCHANGEABLE JOINT

CAT. REF.	CAP. ML.	INTERCHANGEABLE JOINT SIZE			APPROX. HEIGHT MM	Qty Per Case	GROUP
		CENTRE NECK	SIDE NECK	SIDE NECK			
548432	5000	34/36	24/29	34/29	108	1	E
548436	9000	34/36	24/29	34/29	126	1	E
548440	20000	35/34	24/29	34/29	130	1	E



5495
FLASKS, ROUND BOTTOM, THREE NECKS, CENTRE NECK AND TWO PARALLEL SIDE NECKS WITH INTERCHANGEABLE JOINT

CAT. REF.	CAP. ML	INTERCHANGEABLE JOINT SIZE			APPROX. HEIGHT MM	Qty. Per Case	GROUP
		CENTRE NECK	SIDE NECK	SIDE NECK			
549532	5000	3405	2429	2429	350	1	E
549535	10000	3405	2429	2429	420	1	E
549540	20000	3544	2429	2429	500	1	E


5496
FLASKS, ROUND BOTTOM, FOUR NECKS, CENTRE NECK AND THREE ANGLED SIDE NECKS WITH INTERCHANGEABLE JOINT

CAT. Case REF.	CAP. MRP/ ML	INTERCHANGEABLE JOINT SIZE				APPROX. HEIGHT MM	Qty. Per Pack.	GROUP
		CENTRE NECK	SIDE NECK	SIDE NECK	SIDE NECK			
549632	5000	3405	2429	2429	2429	350	1	B
549635	10000	3405	2429	2429	2429	420	1	B
549640	20000	3544	2429	2429	2429	500	1	B


5497
FLASKS, ROUND BOTTOM, FOUR NECKS, CENTRE NECK AND THREE PARALLEL SIDE NECKS WITH INTERCHANGEABLE JOINT

CAT. Case REF.	CAP. MRP/ ML	INTERCHANGEABLE JOINT SIZE				APPROX. HEIGHT MM	Qty. Per Pack.	GROUP
		CENTRE NECK	SIDE NECK	SIDE NECK	SIDE NECK			
549732	5000	3405	2429	2429	2429	350	1	B
549735	10000	3405	2429	2429	2429	420	1	B
549740	20000	3544	2429	2429	2429	500	1	B



5081
FLASKS, Erlenmeyer, GRADUATED, CONICAL, NARROW MOUTH

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	APPROX. O.D. NECK MM	PACKING VOL	GROUP
509132	5000	220	377	53	3/24	A
509135	10000	284	490	60	3/12	D
509140	25000	365	520	73	3/11	D



5481
FLASKS, FILTERING, HEAVY WALL, BOLT NECK WITH TUBULATION

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	PACKING VOL	GROUP
615122	5000	257	458	0142	C
615125*	**10000	322	508	0142	C
615140*	**20000	378	558	0142	C



*These flasks are in Stock Shape

MYTH

Glass is just for windows

FACT

There is so much more to glass with endless possibilities. There are different types of glass that have various uses in all fields from Technology to Architecture.

While windows are still a primary application for glass in your home, scientists are currently manipulating glass at the molecular level in the hopes of increasing the total capabilities of glass products. In addition, expanding glass' capabilities helps to solve some of the world's toughest issues.

Scientists have experimented with glass that makes high-speed communication possible through optical fibre. Innovations in glass products also help turn solar energy into electricity and enable thinner, lighter, and more durable display devices.



FILTER FLASK (Improved Design)

Goal Scientific Glass Works Ltd. is a leading Industrial and Laboratory Glassware manufacturing company in India. Since inception, our motto has been to go beyond possible to delight customer through innovation.

Under vacuum environment, the filter flask are prone to collapse and thus we are proud to introduce new design of Filter Flask. These filtration flasks are manufactured as per Japanese design and are more suitable and stronger as compared to existing conventional/traditional available designs.

Application:

- * Filtering solutions.
- * Removing solvent under reduced pressure.
- * Provides buffering to vacuum pump or vacuum line.

Salient Features:

- * Thick wall of the flask provides it the strength to withstand the pressure difference while holding a vacuum flask.
- * Side arm/hocckle to connect to a vacuum pump or aspirator, to create lower vacuum/pressure inside the flask.
- * Made from Borosilicate glass S.S, to provide visibility, strength, heating and chemical resistance.

9431 / I

IMPROVED FLASKS, FILTERING, HEAVY WALL

CAT. REF.	CAP. ML.	APPROX. O.D. MM.	APPROX. HEIGHT MM.	PACKING UTM.	GROUP
6401204	200	120	240	06/24	E
6401304	300	200	295	01/18	E
6401304	500	240	340	01/12	E
6401304	1000	300	400	01/12	E
6401404	2000	350	500	01/18	E



FUNNELS

T451

FUNNELS, SEPARATING, GLOBE SHAPE, WITH PTFE KEY STOPCOCK WITH HOLLOW INTERCHANGEABLE STOPPER

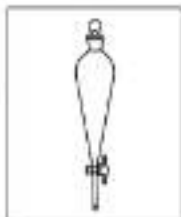
CAT. REF.	CAP. ML.	I / C STOPPER SIZE	PACKING ICM	GROUP
T45102	5000	34/25	-P1-	D
T45105	10000	34/25	-P1-	D
T45140	20000	45/40	-P1-	D



T514

FUNNELS SEPARATING, PEAR SHAPE, FITTED WITH PTFE KEY STOPCOCK WITH INTERCHANGEABLE HOLLOW STOPPER

CAT. REF.	CAP. ML.	I / C STOPPER SIZE	PACKING ICM	GROUP
T51402	5000	34/25	-T1-	E
T51405	10000	34/25	-T1-	E
T51440	20000	45/40	-T1-	E

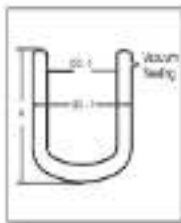


NEW

T701

DEWAR JAR WITH VACUUM CERTIFICATE

CAT. REF.	CAP. ML.	O.D.1	O.D.2	HEIGHT	GROUP
T70102	5000	105	225	350	E
T70105	10000	225	315	350	E
T70140	20000	315	415	350	E



JARS

7900 MUSEUM JARS

CAT. REF.	O.D. X HEIGHT MM	QTY. PER CASE	GROUP
79001	80 x 200	4	E
79002	80 x 250	4	E
79003	100 x 300	4	E
79004	100 x 250	4	E
79005	100 x 300	4	E
79006	150 x 300	2	E
79007	150 x 250	2	E
79008	150 x 300	2	E
79009	220 x 250	1	D
790010	225 x 300	1	D
790011	220 x 375	1	D
790012	300 x 300	1	D
790013	300 x 375	1	D
790014	300 x 450	1	D



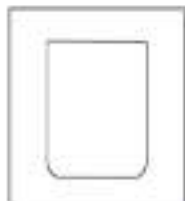
7907 JARS, BELL, ROUND BOTTOM, EDGE GROUND

CAT. REF.	APPROX CAP. LTR	APPROX HEIGHT MM	APPROX O.D. MM	QTY. PER CASE	GROUP
790706	19	450	315	1	D
790708	17	400	315	1	D
790703	13	360	250	1	D



7916 JARS, CYLINDRICAL, FERMENTATION

CAT. REF.	APPROX CAP. LTR	APPROX HEIGHT MM	APPROX O.D. MM	QTY. PER CASE	GROUP
791606	10	320	230	1	D
791607	14	455	230	1	D



BLR - Accessories & Spares

Sr.	Description	MOC	Unit Size	Cat Ref.
Double Wall Jacketed Vessel				
1	Jacketed Vessel - 0.5 L	Duran	0.5L	VZ06.5U
2	Jacketed Vessel - 1.0 L	Duran	1.0L	VZ07U
3	Jacketed Vessel - 2.0 L	Duran	2.0L	VZ08U
4	Jacketed Vessel - 3.0 L	Duran	3.0L	VZ09U
5	Jacketed Vessel - 5.0 L	Duran	5.0L	VZ09U
Tripple Wall Jacketed Vessel				
1	Jacketed Vessel - 0.5 L	Duran	0.5L	VZ10.5U
2	Jacketed Vessel - 1.0 L	Duran	1.0L	VZ11U
3	Jacketed Vessel - 2.0 L	Duran	2.0L	VZ12U
4	Jacketed Vessel - 3.0 L	Duran	3.0L	VZ13U
5	Jacketed Vessel - 5.0 L	Duran	5.0L	VZ13U
Vessel Cover				
1	100 DN Vessel Cover with Duran type flange with Duran Rodoks Joints Center Neck - NS29/32, Side Neck NS 24/29 X 62 Nos at 10° Both are opposite site, Side Neck NS 19/25 X 62 Nos at 3° Both are opposite site	Duran	0.5L - 2.0L	VZ46U
2	150 DN Vessel Cover with Duran type flange with Duran Rodoks Joints Center Neck - NS34/35, Side Neck NS 24/29 X 62 Nos at 10° Both are opposite site, Side Neck NS 24/29 X 62 Nos at 0° Both are opposite site	Duran	3.0L - 5.0L	VZ46U
Coupling & Gasket				
1	100 DN Duran flange Coupling with PTFE TEFLON Gaskets	SS304/PTFE	0.5L - 2.0L	GT-QCT4U
2	150 DN Duran flange Coupling with PTFE TEFLON Gaskets	SS304/PTFE	3.0L - 5.0L	GT-QCT6U
3	100 DN FRM 'O' Ring	VITON	0.5L - 2.0L	LTR4
4	150 DN FRM 'O' Ring	VITON	3.0L - 5.0L	LTR6
5	100 DN FFKM 'O' Ring	KALREZ	0.5L - 2.0L	LTR4
6	150 DN FFKM 'O' Ring	KALREZ	3.0L - 5.0L	LTR6
7	SS 304 Coupling 1" with SS 304 Nuts & Bolts	SS304	0.5L - 2.0L	CT1193
8	PTFE 'O' Ring for 1"	PTFE	3.0L - 5.0L	TR1
9	SS 304 Coupling 1.5" with SS 304 Nuts & Bolts	SS304	3.0L - 5.0L	CT1.5935
10	PTFE 'O' Ring for 1.5"	PTFE	0.5L - 5.0L	TR1.5

Qty	Description	MOC	Unit Size	Cat Ref.
Valve				
1	Flush Bottom Valve - 1"	Duran	0.5L - 2.0L	BALVJ
2	Flush Bottom Valve - 1.5"	Duran	3.0L - 5.0L	BALV5J
PTFE Stirrer (Blade)				
1	SR - A (Blade/Propeller/Turbine)	400 mm	0.5L - 2.0L	STB4
2	SR - B (Blade/Propeller/Turbine/Anchor)	850 mm	3.0L - 5.0L	STB8
Sealing				
1	Magnetic Coupling NS25/32	HAST/CFT	0.5L - 2.0L	MSD1
2	Magnetic Coupling NS34/35	HAST/CFT	3.0L - 5.0L	MSD2
3	High Vacuum Stuffing Box	PTFE	0.5L - 2.0L	HSS3A
4	High Vacuum Stuffing Box	PTFE	3.0L - 5.0L	HSS3A
Stirrer Drive				
1	Lab Stirrer Drive Speed 50 to 1000 RPM with dig. indicator	SS/PP	0.5L - 5.0L	L3D
Sensor				
1	Temperature Indicator sensor -40° to 251° c	MS	0.5L - 5.0L	LT1
Glass Accessories				
1	Double Coil Condenser with Socket/Cone NS24/29, 180 mm long	Borosilicate 3.3	0.5L - 2.0L	HES24A
2	Double Coil Condenser with Socket/Cone NS24/29, 300 mm long	Borosilicate 3.3	0.5L - 3.0L	HES24B
3	100 ml Funnel, Additional / Dropping, with socket NS24/29 cylindrical, 9/ bore PTFE stopcock, graduated pressure equalizing	Borosilicate 3.3	0.5L - 2.0L	AEF25
4	250 ml Funnel, Additional / Dropping with socket NS24/29 cylindrical, 9/ bore PTFE stopcock, graduated pressure equalizing	Borosilicate 3.3	3.0L - 5.0L	AEF50
5	Thermometer Pocket MS18	Borosilicate 3.3	0.5L	TP05
6	Thermometer Pocket MS19	Borosilicate 3.3	1.0L	TP1
7	Thermometer Pocket MS19	Borosilicate 3.3	2.0L	TP2
8	Thermometer Pocket NS24	Borosilicate 3.3	3.0L	TP3
9	Thermometer Pocket NS24	Borosilicate 3.3	5.0L	TP6
Scaffolding / Stand				
1	SS 304 Scaffolding / Stand for 0.5L to 2L	SS 304	0.5L - 2.0L	T8G/SS/1.5-2U
2	SS 304 Scaffolding / Stand for 3L to 5L	SS 304	3.0L - 5.0L	T8G/SS/3-5U

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WORD of WISDOM

Respect of Intellectual Property

Goel Scientific Glass Works Ltd., popularly known as , having its registered office at C-31A, Santar Estate, Ajeet Road, Vadodra - 390 019, Gujarat, India., is company registered under the Companies Act 1956 through Registrar of Companies, Ministry of Corporate Affairs, Government of India.

We have following registered Trademarks:



- 2002: Process of Manufacturing Flask (Process of manufacturing flask from Glass tubes (50 Ltrs and above)
- 2003: Jetto Rotary Evaporator (Large size rotary evaporators 200 Ltrs and above)
- 2007: Coil type heat exchanger (Detachable coil type heat exchanger)
- 2009: Transparent Double Jacketed Vessel (Detachable double jacketed Vessel)
- 2013: Glass Decarbox System (Decarbox concept with Borosilicate Glass)
- 2015: Motor Stirrer (Light weight handy stirrer for Laboratory)
- 2014: Whisky Glass with Bellies (Glass for whisky loovers with bellies eliminating size of stirrer)

Since inception, the above-mentioned Intellectual Properties (Trademarks and Proprietary products & processes - Patents) are used in market to sell and export a wide variety of glassware products and articles Domestically (across India) & Internationally (across the World) and has attained high reputation, respect, goodwill by virtue of assured quality. We have exclusive right to advertise, market and sell the goods with the above-mentioned intellectual properties. Notwithstanding anything, use of these trademarks in any manner and/or infringement of above-mentioned products and/or process whatsoever, without written consent is strictly prohibited and shall attract legal consequences (Civil and/or Criminal) by any means and/or remedies as deemed fit and necessary, which may be with or without intimation.

It is advisable to insist for original invoice(s) and/or certificate of authentication for every purchase, as spurious goods are harmful & dangerous to the user & nation and may adverse effects to the life or life-threatening to the user.

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Correspondence in this context may please be made at registered office address of the Company.

Buyers from unauthorized sources will not be accepted and prosecuted for Trespassing.



The Glassware Specialist

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Our brands: **FLEX-HE®** **HardStar®** **TRON®** **EXTRON®** **STRONG**

For further enquiry @ 2000 our products are available at 34 agencies around

