



GOEL GLASS
CUSTOM SPECIALIST

LAB CATALOGUE

- Scientific Glassware
- Laboratory Equipment
- Process Glass Components
- Industrial Glass Solutions



ISO 9001 : 2005

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COMPANY PROFILE

Engineering Excellence Since Decades · Scientific Borosilicate Glass Specialists

"One of India's leading Scientific Glass Manufacturers serving more than 80 countries worldwide."

GOEL GLASS INC. is one of the leading Scientific glass fabricator in the world, who has provided the glass industry of India a big leap in the Global Market. We have made presence in all the populated continents and are representing & supplying our product & service worldwide. At present, we have over 1100 satisfied customers across the globe in around 80 countries.

We fabricate glass parts from best raw material from various leading manufacture for its production. On request, we also produce glass parts from Leading European Borosilicate Glass 3.3 tubing supplier which fulfills all major standards of DIN ISO 3585 & ASTM E438 Type I, Class A and thus offering high accuracy & excellent optical properties which is at par to other leading manufactures across the globe.

Understanding the Glass at it's best, we forge Glass with the precise mixed combination of craftsmanship of Potter, Blacksmith & Goldsmith with a blend of engineering, being "Custom Specialist".

We specialize in design, fabrication, engineering, installation & commissioning of Pilot Plant/Mini-Plant & Standard Distillation Unit for Research & Development. All glass parts are designed, fabricated, tested & installed as per International Norms like ISO 3585, 3586, EN BS 1595, AD 2000 Merkblatt. On request, glass pilot plant parts are available with CE Marking & documentation with added monetary value.

We have been launching an entire range of glass equipments in the Indian & global market. A few of our achievements are listed on the left:

MILESTONES — 1989 TO 2021

- 1989

Developed the unique XTRONG RANGE, which possess a tightening strength as high as 3 times than earlier conventional ones and thus almost eliminates leakage and breakage problems while tightening.
- 1994

Started "Process Plant Division" for the development of New Products.
- 2000

Became the first ISO-9001 certified company in the "Glass Equipment Manufacturing" segment in India.
- 2003

Developed 300-Litre Spherical Vessel & participated as exhibitor inACHEMA-2003, Frankfurt, Germany.
- 2005

Manufactured 500 Ltr. Spherical Vessel.
- 2007

Developed FLEX-HE (Assembled coil type) heat exchangers.
- 2009

Manufactured for the first time 800 Ltr. Kettle and participated inACHEMA-2009 at Frankfurt, Germany for the consecutive 3rd time.
- 2011

Developed Assembled Jacketed Vessel up to 200L Capacity.
- 2013

Successfully supplied, 1st time, Anhydrous HCL Gas Generator by Calcium Chloride Route & developed Graphite Shell & Tube Heat Exchanger.
- 2015

Awarded for outstanding export performance by Honorable CM of Gujarat, Smt. Anandiben Patel and 1000 DN Pipe manufactured for the first time in India. Participated inACHEMA for the 5th time.
- 2017

Started supplying CE certified kilo lab distillation units.
- 2019

Successfully Design, develop and supplied HCL and HNO3 Purification unit.
- 2021

Developed 1–3 Ltr. Rotary Evaporator with modular design "Rota-E-Vap". Developed "Lab Glass Reactor" suitable for Chemical Process Unit.
- 1990

Introduced Glass Shell & Tube Heat Exchangers for the first time in Indian market.
- 1998

Started manufacturing Spherical Vessels from an entirely new technique very first time in the country, placing us at par with overseas manufacturers of such vessels.
- 2002

Successfully executed export order of 640,000 multi-necked flasks within a time period of 8 months.
- 2004

800 DN pipe section manufacturing for the first time in India.
- 2006

Participated inACHEMA-2006 for 2nd time & given seminar on "Jumbo Rotary" at Frankfurt, Germany.
- 2008

Awarded for outstanding performance for the year 2006–07 by Govt. of Gujarat, Ministry of Ind. & Mines.
- 2010

Developed Flexi Double Jacketed Vessel (Triple Wall – Detachable Jacket).
- 2012

Participated in Achema-2012 for 4th time & presented Triple Walled Glass Reactor.
- 2014

Entered into Decorative Glass segment with brand "D'Boro". Developed Glass Synthesizer upto 200L.
- 2016

National Award for "Quality Products In Micro & Small Enterprises" by Kalraj Mishra, Minister of MSME on behalf of PM Shree Narendra Modi.
- 2018

Successfully Design, develop and supplied H2SO4 Concentration unit.
- 2020

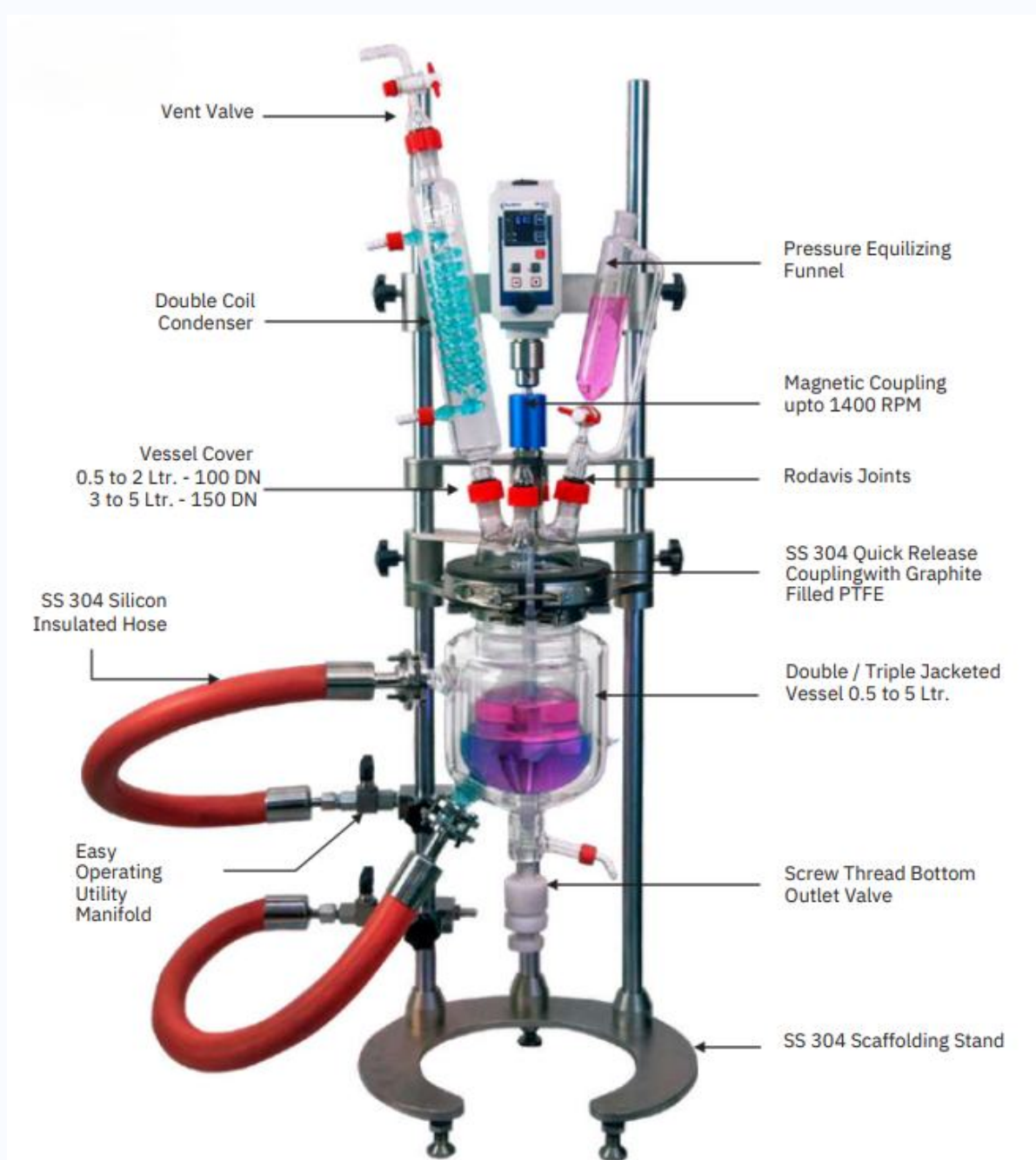
Develop and supplied SKID mounted precious Metal Recovery unit successfully.



LAB GLASS REACTOR

● -60°C Min

● +230°C Max



PRODUCT DESCRIPTION

One of the prime endeavor and proud moment for "GOEL Glass Inc." 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

Lab Glass Reactor – Components & Materials

01 Double / Triple Wall Jacketed Reactor

0.5 Ltr to 5 Ltr Double / Triple Wall Jacketed reactor with 100 DN /150 DN Duran glass flange with groove – Made from Schott Duran Glass tubing

- Primary Reactor – For Reaction
- Double Wall Reactor – for Utility Circulation (–60°C to 200°C)
- Triple Wall Reactor – for Full Vacuum sealed Jacket to prevent energy loss & to maintain transparency during condensation at –20°C



02 Bottom Outlet Valve — Fused Type

Fused type bottom outlet valve with Screw thread operating



03 Duran Glass Flange Cover

100 DN / 150 DN Duran Glass Flange cover with DURAN® RODAVISS® Joints – Made from Schott Duran Glass tubing



04. 100 DN / 150 DN "O" Ring Viton / PTFE / FFKM (Perfluoro elastomer)

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



06 SS Magnetic Drive

SS Magnetic Drive for Glass reactor



08. Pressure Equalizing funnel with DURAN® RODAVISS® Joints

09. High Efficiency 250 mm Long Double coil Condenser with DURAN® RODAVISS® Joints



10 SS304 Scaffolding Support Stand

Unique Support system SS304 Scaffolding stand with Bakelite Knob with SS304 screw



11. Over Head Stirrer Drive

12. Digital Temperature Indicator PT100 PTFE Coated sensor (–60 to 300°C)



13 SS304 Insulated Hose Connection

SS304 Insulated hose with Manifold Connection System with flexible movement





BENCHTOP LAB GLASS REACTOR

Designed for laboratory research, chemical synthesis and pilot-scale applications.

In addition to range of glassware, we also supply Benchtop Lab Glass Reactors. This includes small vessels (Double or Tripple walled) from 0.5 L to 5 L. 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, manufactured from German made Borosilicate glass and a minimal dead space with many other standard and optional features.

REACTOR VOLUME

0.5 L – 5 L

REACTOR TYPE

Double Walled Tripple Walled

OPERATING PRESSURE

Full Vacuum to 0.5 bar (g)

GEAR MOTOR SPEED

50 – 1000 RPM Inbuilt Digital Indicator

THERMAL SHOCK (TRIPLE)

60°C

CONNECTIONS

Standard GL Threads Inlet / Outlet

TECHNICAL CONFIGURATION

Sr No	Item	Additional Funnel (ml.)	Condenser Length (mm)	Double Wall Unit Code	Tripple Wall Unit Code	L × B × H
1	0.5 Ltr Lab Glass Reactor (100 DN)	100	180	DBLR0.5	TBLR0.5	400×350×1100
2	1 Ltr Lab Glass Reactor (100 DN)	100	180	DBLR1	TBLR1	400×350×1100
3	2 Ltr Lab Glass Reactor (100 DN)	100	180	DBLR2	TBLR2	400×350×1100
4	3 Ltr Lab Glass Reactor (150 DN)	250	300	DBLR3	TBLR3	550×500×1400
5	5 Ltr Lab Glass Reactor (150 DN)	250	300	DBLR5	TBLR5	550×500×1400

SALIENT FEATURES

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

OPTIONAL ACCESSORIES

Vacuum Pump

Digital Temp Indicator

Chiller

Heating / Cooling System

Mobility Support



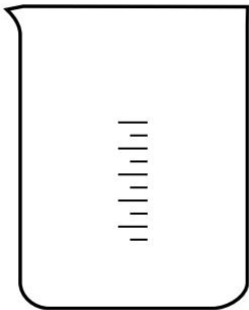
LABORATORY GLASSWARE

Industrial Borosilicate Laboratory Glassware

BEAKERS

2111 BEAKERS, GRIFFIN, LOW FORM, WITH SPOUT, GRADUATED

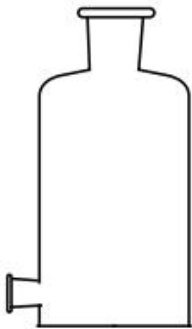
CAT. REF	CAP. ML	APPROX. O.D. MM	APPROX. HEIGHT MM	PACKING I/C/M	GROUP
2111/32	5000	170	270	0/3/9	A
2111/35	10000	220	350	0/1/6	A
2111/40	20000	290	400	0/1/2	A



BOTTLES

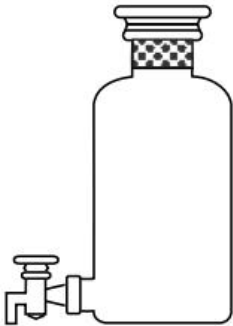
2351 BOTTLES, ASPIRATOR WITH OUTLET FOR STOPPER

CAT. REF	CAP. ML	APPROX O.D. MM	APPROX HEIGHT MM	APPROX NECK I.D.	APPROX OUTLET I.D.	QTY PER CASE	GROUP
2351/32	5000	190	320	44	28	1	D
2351/35	10000	220	410	54	28	1	D
2351/40	20000	300	505	54	28	1	D



2356 BOTTLES, ASPIRATOR, WITH INTERCHANGEABLE STOPPER AND STOPCOCK

CAT. REF	CAP. ML	APPROX O.D. MM	APPROX HEIGHT MM	APPROX NECK I.D.	APPROX OUTLET I.D.	Qty Per Case	GROUP
2356/32	5000	190	320	45/40	29/32	1	D
2356/35	10000	220	410	55/44	29/32	1	D
2356/40	20000	300	505	55/44	29/32	1	D



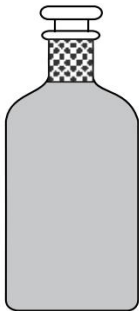
REAGENT BOTTLES

Premium Borosilicate Storage Glassware

2610

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

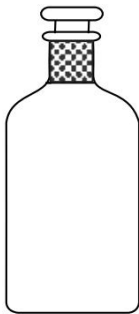
CAT. REF.	CAP. ML.	APPROX O.D. MM	APPROX HEIGHT MM	SIZE OF INTER-CHANGEABLE STOPPER	PACKING I/C/M	GROUP
2610/32	5000	190	320	45/40	1/0/9	E
2610/35	10000	220	410	55/44	0/1/2	E
2610/40	20000	300	505	55/44	0/1/2	E



2611

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

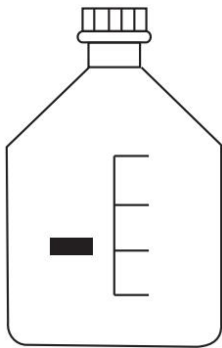
CAT. REF./PC.	CAP. ML.	APPROX O.D. MM	APPROX HEIGHT MM	SIZE OF INTER-CHANGEABLE STOPPER	PACKING I/C/M	GROUP
2611/32	5000	190	320	45/40	1/0/9	D
2611/35	10000	220	410	55/44	0/1/2	D
2611/40	20000	300	505	55/44	0/1/2	D



2612

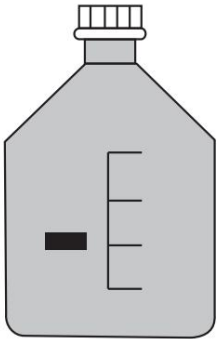
BOTTLES, REAGENT, SCREW CAP, PLAIN - WITH GL45 (WITH CLASS-A CERTIFICATE)

CAT. REF.	CAP. ML.	APPROX O.D. MM	APPROX HEIGHT MM	PACKING I/C/M	GROUP
2612/32/45	5000	190	320	1/2/12	D
2612/35/45	10000	220	410	0/1/2	D
2612/40/45	20000	300	505	0/1/2	D
2612/45/45	50000	430	660	0/1/1	D



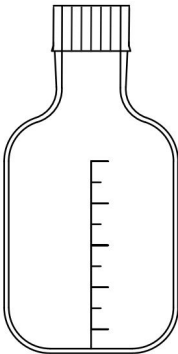
2613
BOTTLES, REAGENT, SCREW CAP, AMBER - WITH GL45 (WITH CLASS-A CERTIFICATE)

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	PACKING I/C/M	GROUP
2613/32/45	5000	190	320	1/2/12	D
2613/35/45	10000	220	410	0/1/2	D
2613/40/45	20000	300	505	0/1/2	D
2613/45/45	50000	430	660	0/1/1	D



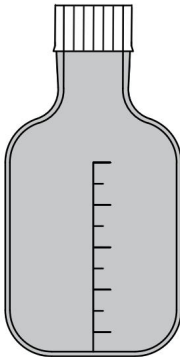
2614
BOTTLES, REAGENT, SCREW CAP, PLAIN - WITH GL80 (WITH CLASS-A CERTIFICATE)

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	PACKING I/C/M	GROUP
2614/32/80	5000	190	350	1/2/12	D
2614/35/80	10000	220	440	0/1/2	D
2614/40/80	20000	300	540	0/1/2	D
2614/45/80	50000	430	660	0/1/1	D



2615
BOTTLES, REAGENT, SCREW CAP, AMBER - WITH GL80 (WITH CLASS-A CERTIFICATE)

CAT. REF.	CAP. ML.	APPROX. O.D. MM	APPROX. HEIGHT MM	PACKING I/C/M	GROUP
2615/32/80	5000	190	350	1/2/12	D
2615/35/80	10000	220	440	0/1/2	D
2615/40/80	20000	300	540	0/1/2	D
2615/45/80	50000	430	660	0/1/1	D

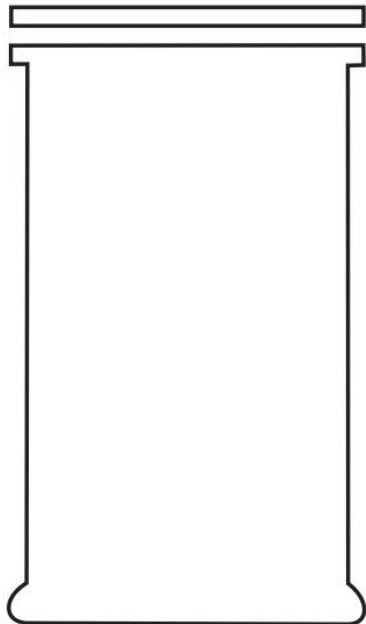


JARS

7900

MUSEUM JARS

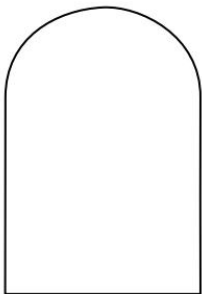
CAT. REF.	O.D. × HEIGHT MM	QTY. PER CASE	GROUP
7900/1	80×200	4	E
7900/2	80×250	4	E
7900/3	100×200	4	E
7900/4	100×250	4	E
7900/5	100×300	4	E
7900/6	150×200	2	E
7900/7	150×250	2	E
7900/8	150×300	2	E
7900/9	225×250	1	D
7900/10	225×300	1	D
7900/11	225×375	1	D
7900/12	300×300	1	D
7900/13	300×375	1	D
7900/14	300×450	1	D



7997

JARS, BELL, ROUND BOTTOM, EDGE GROUND

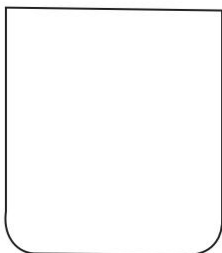
CAT. REF.	APPROX. CAP. LTR	APPROX. HEIGHT MM	APPROX. O.D. MM	QTY. PER CASE	GROUP
7997/39	19	450	315	1	D
7997/38	17	400	315	1	D
7997/33	10	350	230	1	D



7016

JARS, CYLINDRICAL, FERMENTATION

CAT. REF.	APPROX. CAP. LTR	APPROX. HEIGHT MM	APPROX. O.D. MM	QTY. PER CASE	GROUP
7016/35	10	320	230	1	D
7016/37	14	455	230	1	D





GOEL GLASS
CUSTOM SPECIALIST

THANK YOU

ENGINEERING THE FUTURE OF LABORATORY GLASS

We're specializes in providing top-notch scientific glassware, custom-made products, high-purity fused quartz ware, and precision components to various industries where purity and thermal performance are paramount. Our products meet the stringent requirements of the most demanding scientific and industrial environments worldwide.

FEATURED PRODUCTS



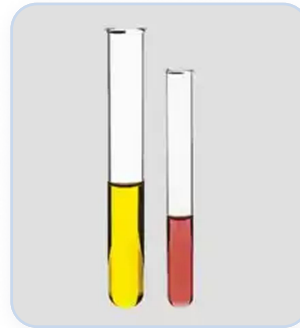
Solution Bottles



Reagent Bottles



Bottles Aspirator



Test Tubes



Glass Beaker

- ✓ German Quality Borosilicate Glass
- ✓ Precision Manufacturing
- ✓ International Standards (ISO 9001)
- ✓ Custom Engineering Solutions

OUR BRANDS

FLEX-HE®

HanSter®

D'BORO®

Swifter®

XTRONG®



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CUSTOM SPECIALIST

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