

HYVAC PRODUCTS, INC.

MAIL: P.O. Box 389 • PHOENIXVILLE, PA • 19460-0389 • U.S.A.

PLANT: 201 NORTH 5TH AVENUE • ROYERSFORD, PA • 19468 • U.S.A.

610-792-0500 PHN • 610-792-0600 FAX

EMAIL jeff@hyvac.com

INTERNET [HTTP://WWW.HYVAC.COM](http://WWW.HYVAC.COM)

Glass Vacuum Bell Jars

Bell jars are available from HyVac in a number of sizes and configurations. All bell jars are rated for full vacuum. They are made of the highest quality Borosilicate glass to assure full performance. Bell jar options are not that extensive and come in two basic flavors. Having a knob on top of the jar or a having a plain top. Having a flange on the bottom where the jar mates to the plate / base or a plain bottom. Height is measured to the top of the inside dome. Diameters are the outside of the jar add roughly 1/2" for flanges.



Sizes Avail OD Diameters

18.00" (457 mm)
15.37" (390 mm)
12.50" (317 mm)
10.25" (260 mm)
09.50" (241 mm)
08.25" (209 mm)
07.00" (177 mm)
06.50" (165 mm)
06.00" (152 mm)
05.50" (139 mm)
04.25" (107 mm)
03.25" (83 mm)

Sizes Avail inside Height

30" (762 mm)
24" (609 mm)
18" (457 mm)
12" (304 mm)
08" (203 mm)
06" (152 mm)

We have little jars also that come in a wide variety of sizes too numerous to list individually. Not all diameters are available with all height options. These are given as a reference for the customer's applications. Call for availability general if not stock 2-3 weeks ARO.

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Glass Bell Jar Guards

These safety guards are made of 17 gauge-perforated steel. We have guards with handles and guards with holes in the top for the knob to protrude. Available to fit most HyVac bell jars. Get safe and use a guard. Minimizes potential problems associated with implosion.

Bell Jar Gaskets

Made from Neoprene or Viton elastomers provide vacuum tight seal against bottom and side of bell jar or flange. Helps guard bell jar from chipping.

Vacuum Grease

Don't forget the grease used to seal jars to plates.

Glass Bell Jar Technical Information

Composition - Type 1, Class A, low expansion borosilicate glass conforming to Federal specification DD-G-54 lb and ASTM E-438. These jars also meet US Pharmacopia (USP) specifications for Type 1 borosilicate glass.

Composition of borosilicate glass in HyVac bell jars:

<u>Material</u>	<u>% approximate</u>
SiO ₂	80.6
B ₂ O ₃	13.0
Na ₂ O	4.0
Al ₂ O ₃	2.3

<u>Physical Properties</u>	<u>Value</u>
Coefficient of Expansion	32.5 x 10 ⁻⁷ cm/cm/°C
Strain Point	510.0 °C
Anneal Point	560.0 °C
Softening Point	821.0 °C
Density	2.53 grams / cm ³
Young's Mod.	76.0 x 10 ¹ Kg / mm ²
Refractive Index	1.474 @ Sodium D Line
Temperature Limits	490.0 °C Extreme Service 230.0 °C Normal Service
Maximum Thermal Shock	160.0 °C

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