



# Complete Dewar Flask Line

We've been in labs forever.



Pope Dewar Flasks are stocked in three popular lines: Low Form Shallow, Lab Grade and Handled Lab Grade. These borosilicate glass Dewars are manufactured for efficiency and safety for use with liquid gases.

The **Low Form Shallow Dewar** in both Hemispherical and Cylindrical configurations are available in popular sizes to match standard flask sizes. The Dewars permit many essential operations not practical with standard cylindrical and spherical models. Available in capacities from 150 to 2500 ml.

The traditional **Lab Grade Line** encompasses a full range of sizes, available as a wide mouth cylindrical Dewar with a choice of either protective mesh or extended aluminum housing and also the popular narrow mouth spherical configuration. This group includes models with capacities from 350 ml to 5000 ml. To minimize evaporation, Lab Grade Dewars include stoppers. Efficiency assured by rigid bakeout and evacuation control (evacuated to 10<sup>-5</sup> torr or better).

The **Handled Lab Grade** Dewar offers a complete Lab Grade Dewar at an affordable price. The most popular wide mouth cylindrical Dewars are manufactured with a full extended aluminum base, full exposed lip and attached handle to facilitate portability, safety and convenience.

For special needs, some Pope Dewars can be fabricated unsilvered, strip-silvered or custom sized. Custom Dewars can be manufactured to your specifications. Pope offers a aluminum caddie for the popular spherical Narrow Mouth Dewar. Pope Scientific also manufactures sophisticated all-glass Dewar systems for low temperature research in the liquid helium range.

# LOW FORM DEWARs

Pope Low Form Shallow Dewars permit essential operations not practical with standard cylindrical or spherical Dewars. These operations include:

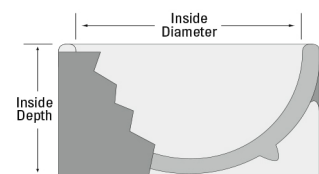
- Rapid freezing and recovery of tissue/organ specimens
- Insertion of small flasks in Dewar
- Agitation in flask with magnetic stirrer
- Tempering of stirring rods, pestles and other small objects

The protective aluminum bases on both styles extend the full height of the Dewars. Note that protected vacuum tip-off tubulations are offset to the side to minimize space between the Dewar bottoms and magnetic stirrers. The hemispherical line has been expanded to provide additional Dewars to fit larger flask sizes.

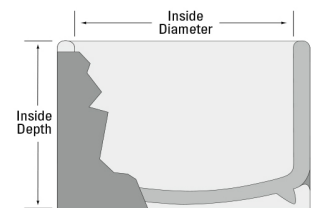
Pope Scientific uses the same technical knowledge, fabrication skill and quality control in producing these Low Form Shallow Dewars – that’s made Pope Number One in glass Dewar manufacture.

Economies in coolant use will be realized in all operations where Pope Low Form Shallow Dewars are more practical. Cooling range from dry ice/acetone to liquid nitrogen.

Pope Low Form Shallow Dewars are available in several sizes and two configurations, hemispherical and cylindrical (with semi-flat bottom). The cylindrical configuration increases coolant capacity.



Hemispherical



Cylindrical

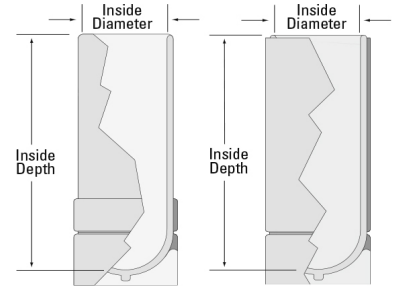
PART #	Dewar Description	Type	Model	Protective Covering	ID (mm)	Inside Depth (mm)	OD* mm	Total Height (mm)	Flask ml	Stopper
8110	150 ml Full Base	Hemispherical	Low Form	Full Aluminum	80	40	106	66	100	N/A
8120	275 ml Full Base	Hemispherical	Low Form	Full Aluminum	100	55	132	75	250	N/A
8130	600 ml Full Base	Hemispherical	Low Form	Full Aluminum	140	65	165	95	500	N/A
8140	1000 ml Full Base	Hemispherical	Low Form	Full Aluminum	160	88	186	119	1000	N/A
8150	2000 ml Full Base	Hemispherical	Low Form	Full Aluminum	194	110	240	133	2000	N/A
8305	220 ml Full Base	Cylindrical	Low Form	Full Aluminum	65	65	87	93	75	N/A
8315	150 ml Full Base	Cylindrical	Low Form	Full Aluminum	80	35	101	66	100	N/A
8325	350 ml Full Base	Cylindrical	Low Form	Full Aluminum	80	75	101	117	100	N/A
8335	850 ml Full Base	Cylindrical	Low Form	Full Aluminum	130	75	160	110	500	N/A
8345	2500 ml Full Base	Cylindrical	Low Form	Full Aluminum	170	135	210	185	1000	N/A

\* Does not take in account the seam at back of Dewar

# LAB GRADE GLASS DEWARs

Pope Lab Grade Dewars are rated the most efficient glass Dewars in the World! This superior ranking is due to rigid quality controls in manufacture and a number of outstanding design and manufacturing features.

- Efficiency assured by rigid bakeout and evacuation control (evacuated to 10-5 torr or better).
- Evacuation tip completely shielded for increased protection.
- Weighted bases on all models for stability
- Optional full length metal housing on most models for added protection
- No pads between walls on cylindrical Dewars eliminating this heat transfer potential
- Supplied stopper tops off Dewars to minimize evaporation



Part #s 8600, 8621,  
8640, 8642, 8645

Part #s 8600-0099,  
8621-0099, 8640-0099,  
8642-0099, 8645-0099

## STANDARD WIDE MOUTH CYLINDRICAL DEWARs

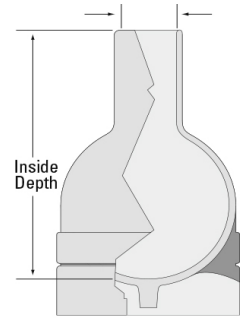
These Dewars exemplify the emphasis placed on both efficiency and safety by Pope Scientific. All Pope Lab Grade Dewars are manufactured of borosilicate glass for liquid nitrogen service. A sturdy mesh cover facilitates a firm grip, provides a cushion against bumping and increases protection.

## FULL LENGTH ALUMINUM HOUSING CYLINDRICAL DEWARs

All Wide Mouth models can be obtained with an exterior metal housing that extends nearly to the top rim of the Dewar (a slight extension of the glass Dewar facilitates pouring). This housing adds the safety of metal to the efficiency of glass, particularly important in handling operations.

## NARROW MOUTH DEWARs

Lab Grade Dewars with a narrow mouth are ideal for temporary storage or for room-to-room transfer (Not for DOT/Vehicle transfer). Standard features include low evaporation cork stopper, fully shielded evacuation tip, weighted bases and partial aluminum base.



Part #s 8697, 8698

PART #	Dewar Description	Type	Model	Protective Covering	ID (mm)	Inside Depth (mm)	OD* mm	Total Height (mm)	Stopper
8600	350 ml Standard Base	Cylindrical, Wide Mouth	Lab Grade	Mesh	70	125	86	157	8845
86000099	350 ml Full Base	Cylindrical, Wide Mouth	Lab Grade	Full Aluminum with Mesh	70	125	86	157	8845
8621	1900 ml Standard Base	Cylindrical, Wide Mouth	Lab Grade	Mesh	120	190	150	252	8821
86210099	1900 ml Full Base	Cylindrical, Wide Mouth	Lab Grade	Full Aluminum	120	190	150	252	8821
8640	665 ml Standard Base	Cylindrical, Wide Mouth	Lab Grade	Mesh	70	195	86	241	8845
86400099	665 ml Full Base	Cylindrical, Wide Mouth	Lab Grade	Full Aluminum	70	195	86	241	8845
8642	4300 ml Standard Base	Cylindrical, Wide Mouth	Lab Grade	Mesh	143	305	178	365	8842
86420099	4300 ml Full Base	Cylindrical, Wide Mouth	Lab Grade	Full Aluminum	143	305	178	365	8842
8645	1000 ml Standard Base	Cylindrical, Wide Mouth	Lab Grade	Mesh	70	302	86	337	8845
86450099	1000 ml Full Base	Cylindrical, Wide Mouth	Lab Grade	Full Aluminum	70	302	86	337	8845
<b>8697</b>	2000 ml Standard Base ( <b>DISCONTINUED</b> )	Spherical, Narrow Neck 32 ID - 64 OD	Lab Grade	Aluminum	158	335	184	386	Cork
<b>8698</b>	5000 ml Standard Base ( <b>DISCONTINUED</b> )	Spherical, Narrow Neck 53 ID - 79 OD	Lab Grade	Aluminum	216	370	255	456	Cork

## DEWARs WITH HANDLES

Ideal for temporary storage and liquid gas service, this flask line incorporates the convenience of a coated handle on the most popular wide mouth cylindrical models.

- Aluminum metal housing full length Dewar increasing protection
- The Dewar lip is extended to facilitate pouring
- Polyethylene stopper, specially vented, minimizes evaporation

These Dewars are priced only slightly higher than the standard models and afford the increased portability, pouring efficiency and added protection. All the features in one complete Dewar!

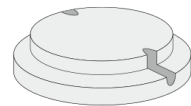
## DEWARs ACCESSORIES

**CADDIES** Lightweight and sturdy, optional aluminum caddies prove ideal for local carrying or decanting Lab Grade Spherical Dewars. They can be used repeatedly by simply removing bottom retainer, inserting a new Dewar, and replacing the retainer. Gaskets help center Dewar and hold it firmly in place. The fiberglass top snaps into place.

To further improve the efficiency of the Narrow Mouth Dewar, caddies can be purchased separately.

**STOPPERS** Pope Lab Grade Dewars are supplied with stoppers for the wide mouth model and for the narrow mouth cylindrical Dewars. Replacement stoppers can be purchased separately; Use the Dewar model # to identify the stopper you need replaced. To extend the use of your Dewar, additional stoppers to replace lost or worn stoppers are available for purchase.

**ADDITIONAL PRODUCTS** Such as Pope Premium Dewars in custom sizes and models for low temperature research can be found on the back panel.



Stopper



PART #	Dewar Description	Type	Model	Protective Covering	ID	Inside Depth (mm)	OD* mm	Total Height (mm)	Stopper
8900	350 ml Full Base w/Metal Handle	Cylindrical, Wide Mouth	Lab Grade	Full Aluminum	70	125	86	157	8845
8921	1900 ml Full Base w/Metal Handle	Cylindrical, Wide Mouth	Lab Grade	Full Aluminum		190	150	252	8821
8942	4300 ml Full Base w/Metal Handle	Cylindrical, Wide Mouth	Lab Grade	Full Aluminum		305	178	365	8842
8945	1000 ml Full Base w/Metal Handle	Cylindrical, Wide Mouth	Lab Grade	Full Aluminum	70	302	86	337	8845

PART #	Accessory Description	Type	Model
30270	Caddie for 8697	Aluminum, Narrow Mouth	Caddie
30380	Caddie for 8698	Aluminum, Narrow Mouth	Caddie
8821	Stopper – Series 8621 & 8921		Stopper
8842	Stopper – Series 8642 & 8942		Stopper
8845	Stopper – Series 8600/40/45 8900/8945		Stopper



# Complete Dewar Flask Line

We've been in labs forever.

## ADDITIONAL SIZES/CUSTOM MANUFACTURED DEWARs

Additional sizes are available in a premium line of Dewars, solid silvered, strip silvered, or unsilvered, with or without bases. Capacities from 100 ml and up are available in either Spherical Narrow Mouth Dewars or Cylindrical Wide Mouth Dewars.

## DEWAR SYSTEMS FOR LOW TEMPERATURE RESEARCH

Pope Scientific also manufactures sophisticated all-glass Dewar systems for low temperature research in the liquid helium range. Please contact us for a quotation.

**POPE DEWARs ARE AVAILABLE THROUGH  
LABORATORY SUPPLY DEALERS**

