

**ROBINSON  
MANUFACTURING**  
COMPANY INCORPORATED

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**MANUFACTURING SINCE 1954**

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COMPANY INCORPORATED

## **PRODUCT WARRANTY**

Robinson Manufacturing warrants products manufactured by Robinson Manufacturing to be free of defective material and workmanship for one year from the date of shipment by Robinson Manufacturing. The liability of Robinson Manufacturing for defective equipment during the warranty period shall be limited to the repair of such equipment or replacement thereof without charge for parts or labor provided by Robinson Manufacturing. Robinson Manufacturing shall be so liable only if Robinson Manufacturing is contacted in regard to such defect immediately after its discovery

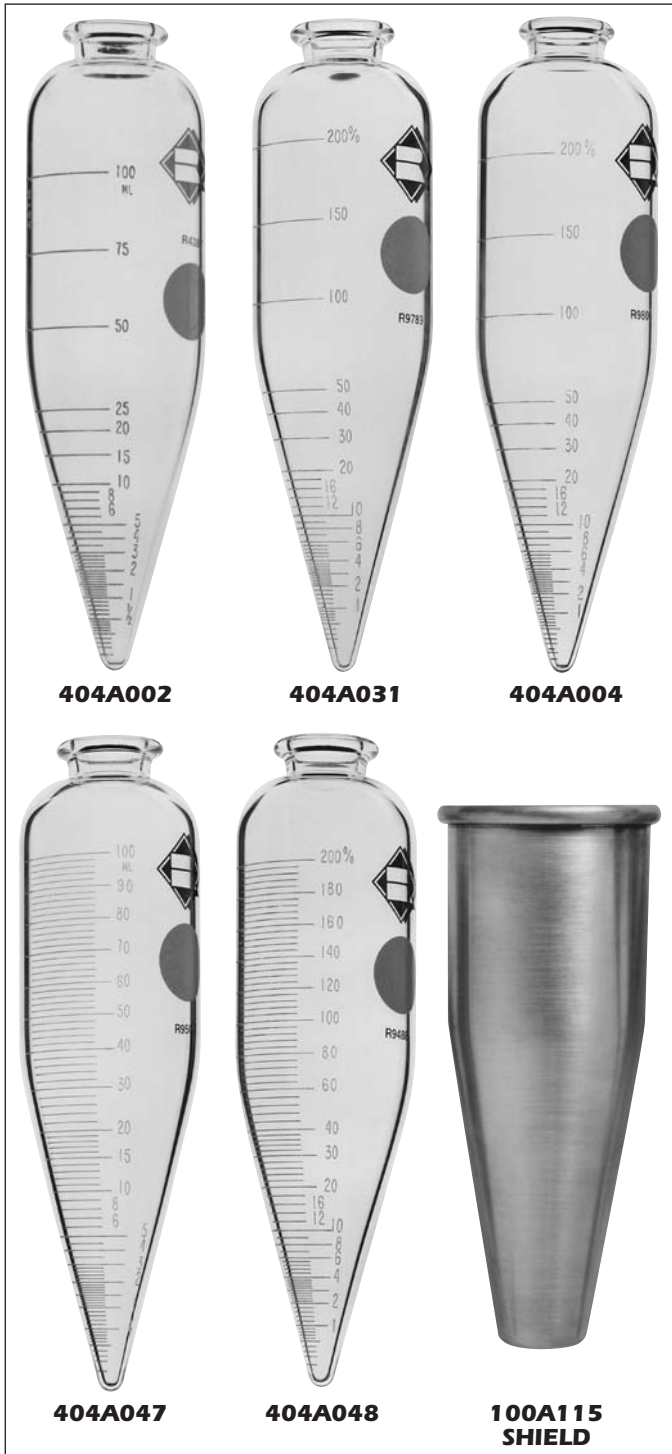
Buyer should return the defective product under warranty to Robinson Manufacturing only after receipt of Robinson Manufacturing's specific permission to do so. This warranty does not extend to any Robinson Manufacturing product which has been subject to misuse, neglect, accident, modification or improper installation, or any product which has been repaired or altered by persons not expressly approved by Robinson Manufacturing. Robinson Manufacturing will not be liable for damages, loss or expense directly or indirectly arising from the use of the products or for any liability from their use either separately or in combination with other equipment or material or for any other cause.

## **MERCHANDISE RETURNS**

No goods should be returned to Robinson Manufacturing without specific authorization. All authorized returns for merchandise shipped by Robinson Manufacturing less than 6 months previously which are returned for any reason other than valid warranty claims will be charged a 15% restocking charge plus any expense necessary to place the merchandise in saleable condition. The restocking charge shall be 25% for goods shipped by Robinson Manufacturing more than 6 months but less than 1 year previously. No returns for credit will be accepted after 1 year from original Robinson Manufacturing shipment. Returns should be shipped freight prepaid.



## CENTRIFUGE TUBES



### **CENTRIFUGE TUBE, 100 ml., Short Cone, Etched**

Made to API/ASTM standards and graduated in percent. The divisions of graduation are 0 to 0.5 ml., in 0.05 ml., 0.5 to 2 ml. in 0.1 ml., 2 to 3 ml. in 0.2 ml., 3 to 5 ml. in 0.5 ml., 5 to 10 ml. in 1 ml., 10 to 25 in 5 ml. and at 50, 75 and 100 ml.

**Catalog Number 404A002**

### **CENTRIFUGE TUBE, 100 ml. Short Cone, 200%, Etched**

Made to API/ASTM standards and graduated in 200 parts to permit the direct reading of percentage of S&W in the test sample containing equal volumes of crude oil and diluent. The divisions of graduation are 0 to 1% in 0.1%, 1 to 4% in 0.2%, 4 to 6% in 0.4%, 6 to 10% in 1%, 10 to 20% in 2%, and at 30%, 40%, 50%, 100%, 150% and 200%.

**Catalog Number 404A031**

### **CENTRIFUGE TUBE, 100 ml. Short Cone 200%, Etched**

Made to API/ASTM standards and graduated in 200 parts to permit the direct reading of percentage of S&W in the test sample containing equal volumes of crude oil and diluent. The divisions of graduation are 0 to 0.2% in 0.05%, from 0.2% to 1% in 0.1%, 1 to 4% in 0.2%, 4 to 6% in 0.4%, 6 to 10% in 1%, 10 to 20% in 2% and at 30%, 40%, 50%, 100%, 150% and 200%.

**Catalog Number 404A004**

### **CENTRIFUGE TUBE, 100 ml. Short Cone, Etched**

Made to API/ASTM standards and graduated in percent. The divisions of graduation are 0 to 0.5 ml. in 0.05 ml., 0.5 to 2 ml. in 0.1 ml., 2 to 3 ml. in 0.2 ml., 3 to 5 ml. in 0.5 ml., 5 ml. to 20 ml. in 1 ml. and 20 to 100 ml. in 2 ml.

**Catalog Number 404A047**

### **CENTRIFUGE TUBE, 100 ml. Short Cone 200%, Etched**

Made to API/ASTM standards and graduated in 200 parts to permit the direct reading of percentage of S&W in the test sample containing equal volumes of crude oil and diluent. The divisions of graduation are 0 to 1% in 0.1%, 1 to 4% in 0.2%, 4 to 6% in 0.4%, 6 to 10% in 1%, 10 to 40% in 2% and 40 to 200% in 4%.

**Catalog Number 404A048**

### **CERTIFIED CENTRIFUGE TUBES** Certified tubes are available upon request.

Certified tubes are volumetrically checked at 15 points.

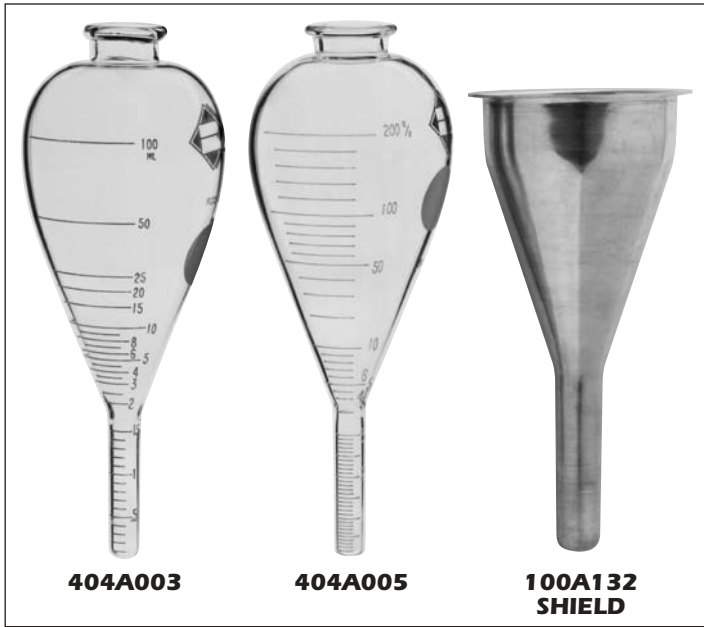
There are two types of certified tubes available:

1. Factory certified accompanied by a certificate of accuracy.  
(add FV to the part number when ordering)
2. Independent laboratory certified accompanied by an actual value certification.  
(add C15 to the part number when ordering)



All of our 100 ml. Short Cone tubes are now available with threads.

Please call for details.



**CENTRIFUGE TUBE, 100 ml., Pear Shape**

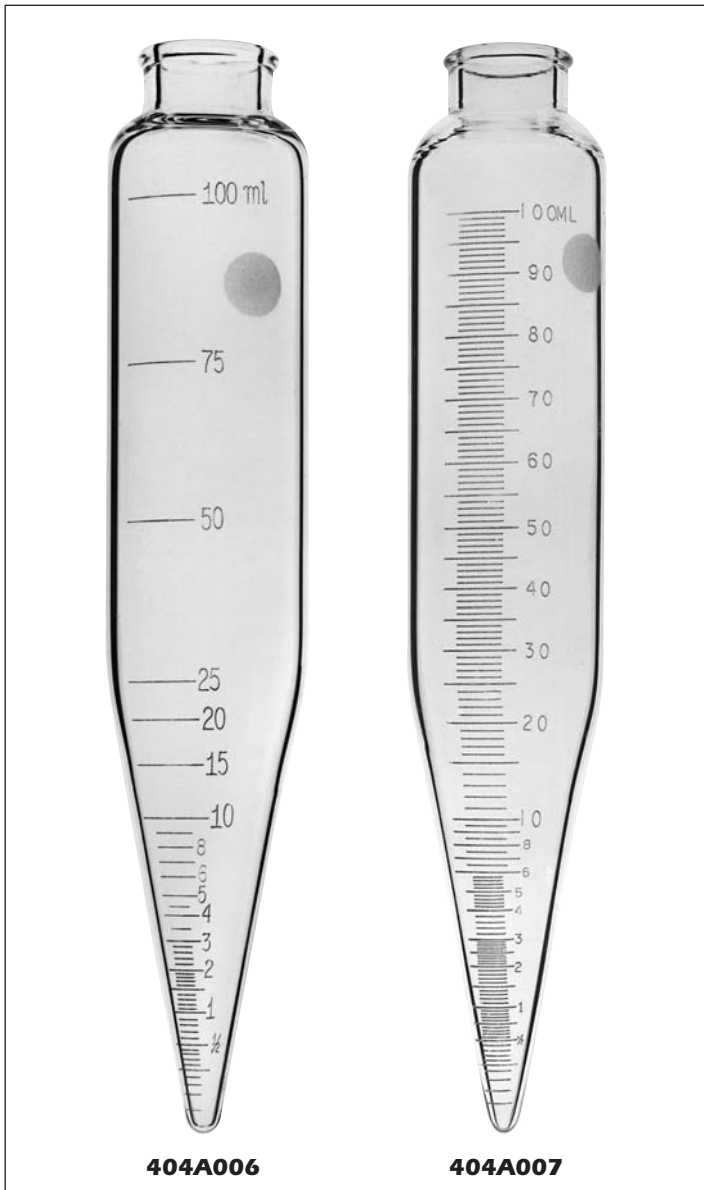
Made to API/ASTM standards and graduated in percent. The divisions of graduation are, in the stem 0 to 1.5 ml. in 0.1 ml., the body from 1.5 to 5 ml. in 0.5 ml., 5 to 10 ml. in 1 ml. and at 15, 20, 25, 50 and 100 ml.

**Catalog Number 404A003**

**CENTRIFUGE TUBE, 100 ml. Pear Shape 200%**

Made to API/ASTM standards and graduated in 200 parts to permit the direct reading of percentage of S&W in the test sample containing equal volumes of crude oil and diluent. The divisions of graduation are, in the stem 0 to 3% in 0.1%, the body from 3 to 5% in 0.5%, 5 to 10% in 1%, 10 to 100% in 10%, from 100 to 200% in 20%.

**Catalog Number 404A005**



**CENTRIFUGE TUBE, 100 ml. Long Cone, 8 inch**

Made to API/ASTM standards and graduated in percent. The divisions of graduation are 0 to 0.5 ml. in .05 ml., 0.5 to 2 ml. in 0.1 ml., 2 to 3 ml. in 0.2 ml., 3 to 5 ml. in 0.5 ml., 5 to 10 ml. in 1.0 ml., 10 to 25 ml. in 5 ml. and 25 to 100 ml. in 25 ml.

**Catalog Number 404A006**

**CENTRIFUGE TUBE, 100 ml. Long Cone, 8 inch California Style**

Made to API/ASTM standards and graduated in percent. The divisions of graduation are 0 to 1 ml. in 0.05 ml., 1 to 3 ml. in 0.10 ml., 3 to 6 ml. in 0.20 ml., 6 to 10 ml. in 0.50 ml. and 10 to 100 ml. in 1.0 ml.

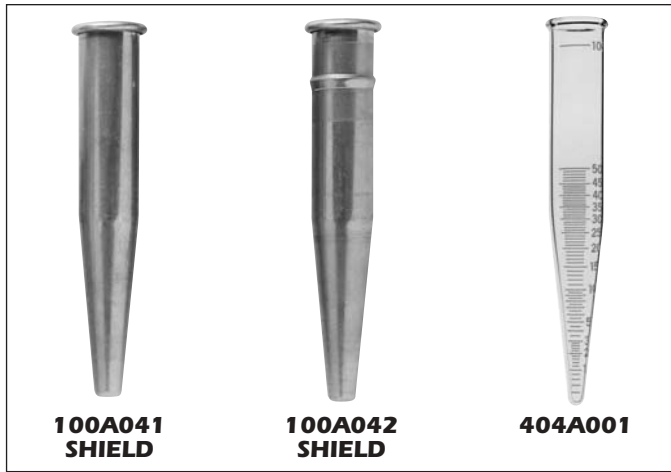
**Catalog Number 404A007**

**WEATHERING TUBE, 100 ml. Long Cone, 8 inch**

For determination of residues in Liquefied petroleum gases (LP). Made with a 3 mm vent hole located 180 degrees from the front of the tube. ASTM method 1837 and D2158.

Made to API/ASTM standards and graduated in percent. The divisions of graduation are 0 to 0.5 ml. in 0.05 ml., 0.5 ml. to 3.0 ml. in 0.1 ml., 3.0 to 5.0 ml. in 0.5 ml., 5.0 ml. to 100 ml. in 1.0 ml.

**Catalog Number 404A038**



**CENTRIFUGE TUBE, 12.5 ml.**

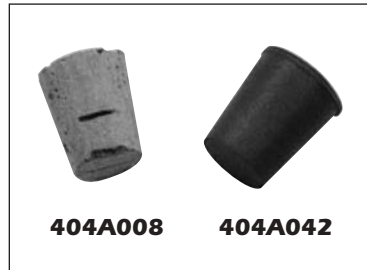
Made to API/ASTM standards and graduated in percent. The divisions of graduation are 0 to 3 percent in 0.2 percent, from 3 to 10 percent in 0.5 percent, from 10 to 50 percent in 1.0 percent and at 100 percent.

**Catalog Number 404A001**

**STOPPERS, Centrifuge Tubes**

For use with the 100 ml. glass tubes. Prevents fluids from spilling.

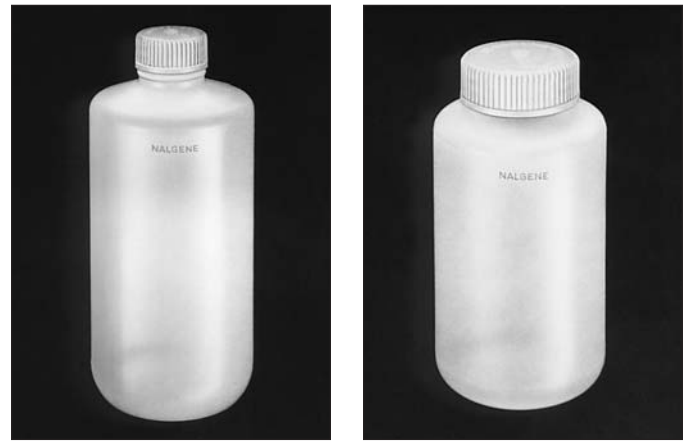
**404A008** Cork  
**404A042** Neoprene



**BRUSHES, Centrifuge Tubes**

**404A040** Short cone  
**404A041** 12.5 ml.

**BOTTLES**



**BOTTLES, Plastic - Round**

Low density polyethylene bottles. Translucent, impact resistance and leak-proof screw closures.

**Narrow Mouth**

Catalog Number	Size ml/oz.	Color	Case lot
<b>404A009</b>	250/8	Translucent	72
<b>404A010</b>	500/6	Translucent	48
<b>404A011</b>	1000/32	Translucent	24
<b>404A012</b>	4 lt./gal.	Translucent	6

**Wide Mouth**

Catalog Number	Size ml/oz.	Color	Case lot
<b>404A029</b>	125/4	Translucent	72
<b>404A013</b>	250/8	Translucent	72
<b>404A014</b>	500/16	Translucent	48
<b>404A015</b>	1000/32	Translucent	24



**BOTTLES, Plastic - Rectangular**

Low density polyethylene bottles. Translucent or amber, impact resistance and leak-proof screw closures.

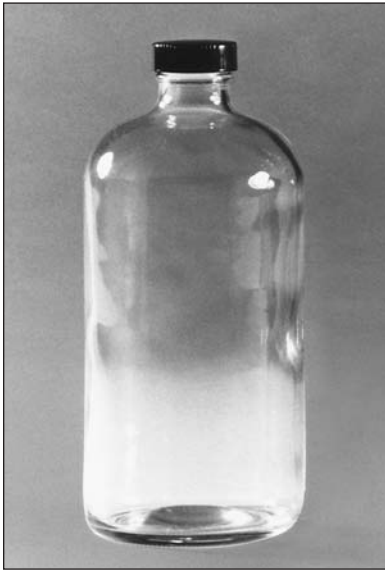
Catalog Number	Size ml/oz.	Color	Case lot
<b>404A052</b>	500/16	Translucent	24
<b>404A053</b>	500/16	Amber	24



**WASH BOTTLE**

Wide-mouth for fast easier filling. Contents can be dispensed without tipping. Closure is leak-proof.

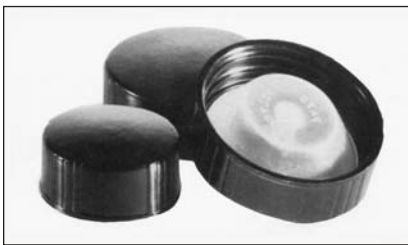
- 404A016** 500ml/16oz
- 404A019** 1000ml/32oz



**BOTTLES, Glass Round**

**Clear Boston Rounds - Narrow Mouth**

Catalog Number	Size oz.	Closure Type	Case Lot
<b>404B017</b>	16	Screw, Plastic	12
<b>404B018</b>	32	Screw, Plastic	12



**POLYSEAL CAP, black phenolic**

- 404A046** 32oz. Boston Round & 4oz. French Square
- 404A051** Centrifuge Tube



**BOTTLES, Glass French Squares**

**Wide Mouth**

Catalog Number	Size oz.	Plastic Cap	Case Lot
<b>404B021</b>	1	Screw	280
<b>404B022</b>	4	Screw	96
<b>404B023</b>	8	Screw	84
<b>404B024</b>	32	Screw	24



**BOTTLES, Glass Prescription**

**Oval Clear - Graduated**

Catalog Number	Size oz.	Plastic Cap	Case Lot
<b>404B025</b>	6	Screw	48