

**BPI<sup>®</sup> Square  
Shooter<sup>™</sup>  
Drop Ball Tester**

For use only by qualified  
personnel in a  
laboratory environment.



**BPI<sup>®</sup> Square  
Shooter<sup>™</sup>  
Drop Ball Tester**

### Specifications

The BPI<sup>®</sup> Square Shooter<sup>™</sup> Drop Ball Tester will test the impact resistance of lenses to meet the applicable ANSI, FDA, and European requirements.

Square Shooters<sup>™</sup> use either:

- 5/8" ball (BPI#19100)
- 1" ball (BPI#19102)
- Both of the above (BPI#19101)
- 7/8" ball (BPI#19103)

The maximum noise level is less than 70 dBA.

### Unpacking

When unpacking your testing instrument, please check to ensure that no concealed damage occurred in transit. If such is noted, save the shipping carton and immediately notify the shipping company's damage control inspector in your area so a claim may be processed. Failure to do this may void any future claim and replacement. Also, call BPI<sup>®</sup> Customer Service so arrangements for a replacement may be made.

HEIGHT	WIDTH	LENGTH	WEIGHT
52 in.	10 in.	10 in.	37 lbs.
133 cm	25.4 cm	25.4 cm	16.78 kg
THE SET-UP KIT INCLUDES THE FOLLOWING PRODUCTS:			
• 1 Instruction manual			

### Setting Up

Fit the pole into the opening on the top of the base unit. Position the cylindrical lens holder (with rubber lens support on top) in the recess test block within the lower chamber of the base unit. Place the lens (convex - typically front surface up) on the rubber pad of the lens holder.

For the 7/8" ball unit, (BPI#19103), place the load ring on top of the lens. (Rubber ring down, against the lens).

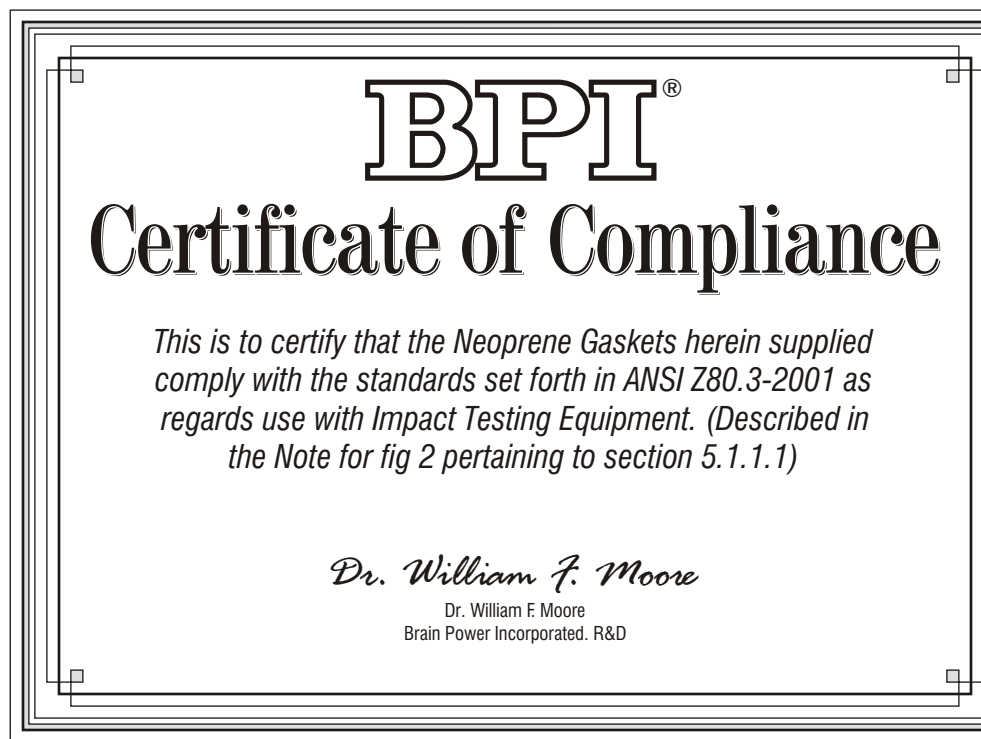
Close the clear plastic door, insert the appropriate steel ball in the opening. Lift the handle, the ball will be lifted to the top of its travel, then released to test the lens.

During the first set-up, and periodically thereafter, the point of the ball impact must be determined. This may be done by placing a sheet of white paper under the support tube with a sheet of carbon paper on top of the paper (carbon down). The ball drop will thus leave a mark on the white paper. The levelness of the tester must be adjusted so that all impacts fall within a 5mm radius of the center of the tube.

Many tests allow placing the lens in a 1 mm thick plastic bag during testing. This facilitates clean up in the event of a failed test. Also, do not place a bi-focal segment line directly in the path of the ball, as the lens may survive the test, but be ruined due to a chipped bi-focal line.

### Questions? Ordering...

If you have any questions about the use of your BPI<sup>®</sup> Square Shooter<sup>™</sup> Drop Ball Tester or any other BPI<sup>®</sup> product, or would like to order supplies, please give us a toll-free call using the number for your area.



**BPI<sup>®</sup> Square Shooter<sup>™</sup> Drop Ball Tester**

BPI# 19100 (5/8" ball)  
BPI# 19103 (7/8" ball)  
BPI# 19102 (1" ball)  
BPI# 19101 (2 balls)