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# The Boxlok (The Valve Box Alignment Device) Specification Sheet

## MATERIAL PROPERTIES AND PRODUCT IDENTIFICATION

The Boxlok, Valve Box Alignment Device, is a two-piece valve box centering device designed to maintain alignment between the valve box and the valve operating nut during installation and throughout the service life of the valve. The Boxlok is designed to snap around the valve stem above the valve bonnet, and below the operating nut, to maintain alignment of the valve box and ensure proper valve access. Each Boxlok manufactured at Pioneer Plastics will be marked with product identification including mold identification, manufacturer identification, country of origin (USA), and date of manufacture (month/year when applicable). Patent numbers may also appear on the device. The Boxlok units are produced from white colored high-density polyethylene (HDPE) material and contain no metal or ferrous components.

The product is manufactured in the United States under strict quality control procedures. Pioneer Plastics operates under an ISO 9001:2015 quality management system. Drawings of the Boxlok are available upon request.

BOXLOK MODEL	SIZE
Boxlok-1, Boxlok-2, Boxlok-K1	~7.5 in
Boxlok-3, Boxlok-4, Boxlok-K3	~5.5 in

Testing is conducted during every phase of the manufacturing process to ensure adherence to required specifications. During the injection molding process, a quality control sample is removed every 30 minutes to verify dimensional accuracy and snap-fit performance.

## QUALITY CONTROL AND TESTING

### Testing procedures include:

- Snap-Fit Engagement Test – verification of proper assembly and clip engagement
- Clip Strength Test – application of 75 lbs lateral force to verify retention performance
- Impact Drop Test – sample dropped multiple times from 5.5 feet to ensure durability and resistance to breakage

Material batches are mixed in controlled increments to ensure proper blending and consistent manufacturing quality. All Boxlok products are reviewed by both Pioneer Plastics and EMMA Sales. Manufactured in an ISO 9001:2015 facility.

## NON-LOAD BEARING STATEMENT

The Boxlok, Valve Box Alignment Device, is designed to function as a non-load-bearing device. The device does not transfer surface loads or traffic forces through the valve box to the buried valve assembly. The Boxlok utilizes a measured loose-fit interface with the valve stem to prevent load transfer while maintaining proper valve box alignment. The device serves solely as an alignment and centering aid for valve box installations.

CERTIFICATIONS: U.S. PATENT NO. 7575018 AND 8430116, BABA Compliant

## SUGGESTED SPECIFICATION LANGUAGE

*Valve boxes shall be installed centered over the valve operating nut and set plumb to finished grade. Provide a valve box alignment device to maintain alignment between the valve box and valve stem during installation and throughout the service life of the installation. Alignment device shall be The Boxlok – Valve Box Alignment Device, manufactured by EMMA Sales, or approved equal.*