



MANHOLE LIFT SYSTEM

SAFETY HANDLING SYSTEM for PRECAST CONCRETE



An easy method of placing precast concrete manhole components in the field.

Over 18 years of Proven Performance.

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PRESS-SEAL GASKET CORPORATION

Protecting Our Planet's Clean Water Supply

Press-Seal Gasket is an ISO 9001:2008 and ISO 14001:2004 Registered Company

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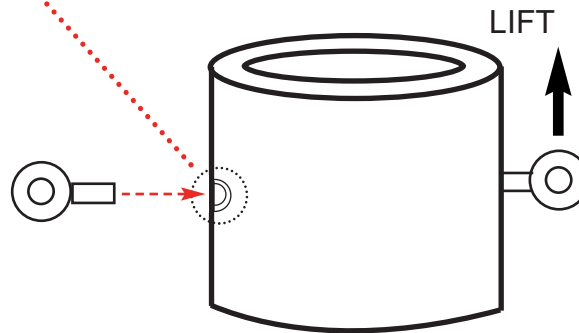
MANHOLE LIFT SYSTEM

DESIGN CRITERIA

Press-Seal Gasket can provide customized design guidelines to the precaster for the use of the lift system with their particular product line and for its theoretical load capacity for both tensile and shear forces.

The lift inserts are designed in accordance with ASTM C-890 for four times the maximum load.

Each lift eye is designed, rated and tested to a lift capacity of 3,600 pounds with a factor of safety of five.



The maximum weight of a product for a two-lift eye system is 7,200 pounds.

The lift system works best when inserts are placed perpendicular to the wall with the lift parallel to the wall. This method insures a safe lift and does not damage the product. Special designs can be provided for product made with more than two lift inserts.

The precaster is advised that the Lift System is designed to be used only with concrete that has achieved 4000 psi minimum concrete compressive strength. Also, lift insert positioning is critical for the safe and successful performance of this system. As a service to its customers, Press-Seal Gasket can recommend insert locations and maximum lift capacity for the system based on the product's geometric configuration and material properties. When supplied, these designs will incorporate appropriate safety factors for lifting devices. Obtaining critical manufacturing strengths and tolerances, however, is beyond the capability and responsibility of Press-Seal Gasket.

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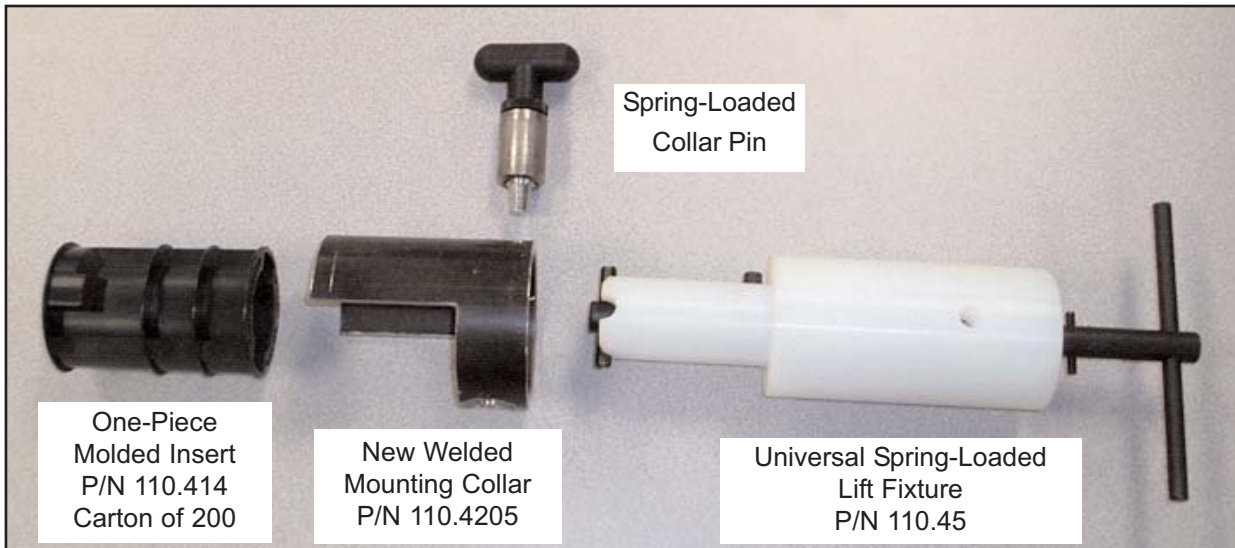
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MANUFACTURING and COMPONENTS

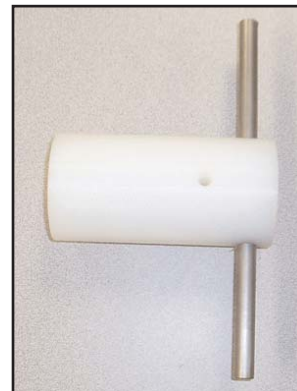
The manufacturing process is simple and fast:

- Place plastic insert over the assembly fixture
- Lock insert onto fixture
- Install the combined fixture and insert through collar into form
- Place concrete in form and consolidate
- Remove fixture from collar
- Remove form from product

Insert is now an integral part of the manhole and can be used for installation as soon as minimum required concrete strength is reached.



Ductile Iron Lift Eye
Rated at 3600 lbs.
P/N 11.3600
Box of 4 or Box of 10



Plug for Blocking Out
Unused Collar
P/N 110.42PLUG

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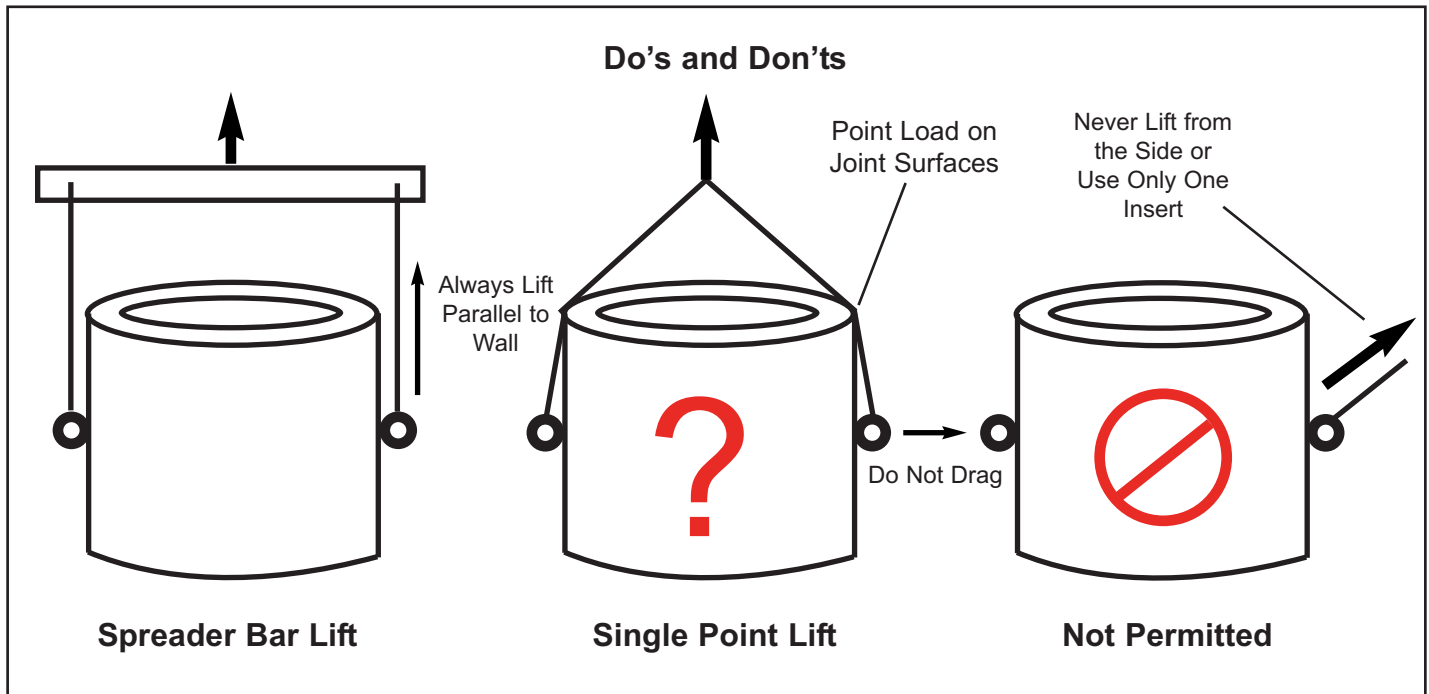
INSTALLATION

Manhole components are delivered to the field with all inserts installed and positioned for quick lifting and installation.



FROM THE TRUCK TO THE DITCH

- * Insert a lift eye into each insert.
- * Turn the lift eye 90 degrees to the vertical position to lock it in place.
- * Place hooks in lift eyes and lift.



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