



# CAST-A-DAPTER

## PRODUCT SPECIFICATION and SELECTION

### Submittal Specification

A flexible Pipe-to-Structure connector shall be employed in the connection of the sanitary sewer pipe to precast tanks or structures. The connector shall be CAST-A-SEAL® 402 and CAST-A-DAPTER as manufactured by Press-Seal Gasket Corporation, Fort Wayne, Indiana, or approved equal. The connector/adapter shall be the sole element relied on to assure a flexible, watertight seal of the pipe to the precast structure. The connector/adapter shall consist of a rubber gasket, a rubber adapter, an alignment plug (on multi-pipe models), and an external take-up clamp.

The rubber elements shall be constructed solely of synthetic or natural rubber, and shall meet or exceed the physical property requirements of ASTM C 923.

The external take-up clamp shall be constructed of Series 300 non-magnetic stainless steel and shall utilize no welds in its construction. The clamp shall be installed by torquing the adjusting

screw using a torque-setting wrench available from the connector manufacturer.

Selection of the proper size connector and adapter for the structure and pipe requirement, and installation thereof, shall be in strict conformance with the recommendations of the connector manufacturer. Any dead end pipe stubs installed in connectors shall be restrained from movement per ASTM C 923.

The finished connection shall provide sealing to 13 psi (minimum) and shall accommodate deflection of the pipe to 7 degrees (minimum) without loss of seal.

Vacuum testing shall be conducted in strict conformance with ASTM C 1244 prior to backfill. Other testing shall be conducted in strict conformance with the requirements of the connector manufacturer.

### CAST-A-DAPTER Selection Guide

(All for use with CAST-A-SEAL 402 Connector)

#### PRODUCT PERFORMANCE

**CAST-A-DAPTER** (used with CAST-A-SEAL 402) meets and/or exceeds all requirements of ASTM C 923, including physical properties of materials and performance testing, including:

- 13 psi minimum in straight alignment
- 10 psi at minimum 7° angle
- 10 psi minimum under ultimate shear load

**CAST-A-DAPTER meets the requirements of the following Standards, Specifications, Codes, and Test Methods:**

- ASTM C 923 *Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals*
- ASTM C 1644 *Standard Specification for Resilient Connectors Between Reinforced Concrete On-Site Wastewater Tanks and Pipes*
- ASTM C 1478 *Standard Specification for Storm Drain Resilient Connectors Between Reinforced Concrete Storm Sewer Structures, Pipes and Laterals*
- ASTM C 1244 *Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test*
- IAPMO/ANSI Z1000 *Standard for Prefabricated Septic Tanks*
- IAPMO/ANSI Z1001 *Standard for Prefabricated Gravity Grease Interceptors*
- NPCA *Best Practices Manual for Precast Concrete On-Site Wastewater Tanks*
- NOWRA *Model Code Framework*
- Florida Department of Health *Product Approval*

CAD Part Number	First PVC Pipe (Schedule 40/80/120)	First Hole ID	Second PVC Pipe (Schedule 40/80/120)	Second Hole ID	Alignment Plug
452.075.075.CA	3/4" PVC	1.050	3/4" PVC	1.050	Yes
452.100.075.CA	1" PVC	1.315	3/4" PVC	1.050	Yes
452.100.100.CA	1" PVC	1.315	1" PVC	1.315	Yes
452.125.075.CA	1-1/4" PVC	1.660	3/4" PVC	1.050	Yes
452.125.100.CA	1-1/4" PVC	1.660	1" PVC	1.315	Yes
452.125.125.CA	1-1/4" PVC	1.660	1-1/4" PVC	1.660	Yes
452.150.CA	1-1/2" PVC	1.900	None	----	----
452.150.075.CA	1-1/2" PVC	1.900	3/4" PVC	1.050	Yes
452.150.100.CA	1-1/2" PVC	1.900	1" PVC	1.315	Yes
452.150.125.CA	1-1/2" PVC	1.900	1-1/4" PVC	1.660	Yes
452.150.150.CA	1-1/2" PVC	1.900	1-1/2" PVC	1.900	Yes
452.200.CA	2" PVC	2.375	None	----	----
452.200.075.CA	2" PVC	2.375	3/4" PVC	1.050	Yes
452.200.100.CA	2" PVC	2.375	1" PVC	1.315	Yes
452.200.125.CA	2" PVC	2.375	1-1/4" PVC	1.660	Yes
452.200.150.CA	2" PVC	2.375	1-1/2" PVC	1.900	Yes
452.250.CA	2-1/2" PVC	2.875	None	----	---
452.250.075.CA	2-1/2" PVC	2.875	3/4" PVC	1.050	Yes
452.250.100.CA	2-1/2" PVC	2.875	1" PVC	1.315	Yes
452.0350	3-1/2" PVC	3.625	None	----	---

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