

# CAST-A-SEAL 802

## PIPE TO MANHOLE & TANK CONNECTOR

### What It Is

The Cast-A-Seal 802 is a simple cast-in pipe-to-manhole connector for straight-wall structures only, that offers a watertight flexible connector that is cast into the structure when the concrete is poured.

The key lock is integrally cast-in during the production process providing a secure seal for storm water and sanitary collection systems.

### How It Works

- The connector is folded into the casting position.
- It is placed on the reusable mandrel and then placed on the form.
- After curing, the mandrel is removed.
- The connector is then simply unfolded at the jobsite.
- Take-up clamps made from series 304 stainless steel with quick adjusting screws secure the connector to the pipe.

### Why It's Better

- Casting tooling and mandrel for straight wall applications is easily fabricated from Styrofoam, host pipe or a steel ring.
- Engineered for sealing large diameter pipes entering straight-wall structures.
- Contractor can save time and money by backfilling immediately.



### Where To Use

- Manholes
- Wet wells
- Square pump and lift stations
- Stormwater structures
- On-site treatment structures
- Junction chambers
- Grease interceptors
- Vaults



**NOTE:** Cast-A-Seal 802 is designed specifically for straight wall structures.



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## SUBMITTAL SPECIFICATIONS

A flexible pipe-to-manhole connector shall be employed in the connection of the sanitary and storm drain sewer pipe to precast manholes or other structures. The connector shall be Cast-A-Seal® 802 as manufactured by Press-Seal Corporation, Fort Wayne, Indiana, or approved equal. The connector shall be the sole element relied on to assure a flexible, watertight seal of the pipe to manhole. The connector shall consist of a rubber gasket and one or two external take-up clamp(s).

The rubber gasket element shall be constructed solely of synthetic or natural rubber, and shall meet or exceed the requirements of ASTM C 923. The connector casting mandrel system shall include a precisely-formed opening in the concrete for installation of a replacement connector in the event that the cast-in connector is damaged.

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 for the structure and pipe requirement, and installation thereof, shall be in strict conformance with the recommendations of the connector manufacturer. And 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.

## Product Performance

Cast-A-Seal 802 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 of 150 lbs/in. pipe diameter

Cast-A-Seal 802 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 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
- ASTM F 2510 Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures and Corrugated

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## RCP, DI & PVC SELECTION GUIDE

PIPE DESCRIPTION	PIPE SIZE O.D. Inch/mm	PIPE SIZE
RCP	19.50" 482 mm	15" B WALL
RCP	23.00" 584 mm	18" B WALL
RCP	26.50" 673 mm	21" B WALL
RCP	30.00" 762 mm	24" B WALL
RCP	31.50" 800 mm	24" C WALL
RCP	33.50" 850 mm	27" B WALL
RCP	35.00" 889 mm	27" C WALL
RCP	37.00" 939 mm	30" B WALL
RCP	38.50" 977 mm	30" C WALL
RCP	44.00" 1117 mm	36" B WALL
RCP	45.50" 1155 mm	36" C WALL
RCP	51.00" 1295 mm	42" B WALL
RCP	52.50" 1333 mm	42" C WALL
RCP	58.00" 1473 mm	48" B WALL
RCP	59.50" 1511 mm	48" C WALL
RCP	65.00" 1651 mm	54" B WALL
RCP	66.50" 1689 mm	54" C WALL
RCP	72.00" 1829 mm	60" B WALL
RCP	73.50" 1867 mm	60" C WALL

PIPE DESCRIPTION	PIPE SIZE O.D. Inch/mm	PIPE SIZE
DUCTILE IRON	17.40" 442 mm	16" 406 mm
DUCTILE IRON	19.50" 495 mm	18" 450 mm
DUCTILE IRON	21.60" 548 mm	20" 508 mm
DUCTILE IRON	25.80" 655 mm	24" 600 mm
DUCTILE IRON	32.00" 812 mm	30" 750 mm
DUCTILE IRON	38.33" 973 mm	36" 900 mm
DUCTILE IRON	50.80" 1290 mm	48" 1200 mm
DUCTILE IRON	57.56" 1462 mm	54" 1350 mm
DUCTILE IRON	61.61" 1565 mm	60" 1500mm
DUCTILE IRON	65.67" 1668 mm	64" 685mm

PIPE DESCRIPTION	PIPE SIZE O.D. Inch/mm	PIPE SIZE
PVC SOLID WALL	18.70" 475 mm	18" 450 mm
PVC SOLID WALL	22.05" 560 mm	21" 525 mm
PVC SOLID WALL	24.80" 630 mm	24" 600 mm
PVC SOLID WALL	27.95" 710 mm	27" 685 mm
PVC SOLID WALL	31.50" 800 mm	30" 750 mm
PVC SOLID WALL	35.43" 900 mm	33" 838 mm
PVC SOLID WALL	39.37" 1000 mm	36" 900 mm

RCP= Reinforced Concrete Pipe DI= Ductile Iron

- Exact pipe O.D. (or size/type/class/schedule, SDR, specification) is required when ordering.
- When used as a cast-in product, Cast-A-Seal 802 is intended only for **straight-wall applications**. Please contact our Customer Service Department for mandrel and casting instructions.
- When used as a field-installed connector (by mortaring or by pouring-in-place), Cast-A-Seal 802 can be used in either circular or straight-wall structures. Please contact our Customer Service Department for proper grouting instructions.
- The above chart lists the most common pipe types and sizes. Cast-A-Seal 802 can be manufactured for any pipe (O.D. 17.40" or larger). Please contact our Customer Service Department for ordering assistance and prices.



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## ADS SELECTION GUIDE

ADS SaniTite® HP Manhole Sleeve Adapter		
Drawing numbers for reference: STD-205D		
ADS PIPE SIZE O.D.	PIPE SLEEVE ADAPTER O.D.	ADS Adapter Product Code
12" 300 mm	15.3" 388.6mm	1222AAPP
15" 375mm	18.3" 464.8mm	1522AAPP
18" 450mm	22.0" 558.8mm	1822AAPP
24" 600mm	29.0" 736.6mm	2422AAPP

ADS Nyloplast® PVC Pipe Manhole Adapter		
Drawing numbers for reference: STD-205D		
ADS PIPE SIZE O.D.	PIPE SLEEVE ADAPTER O.D.	Nyloplast PVC Product Code
12" 300 mm	12.5" 317.5mm	1257AGHPU2
15" 375mm	15.3" 388.6mm	1557AGHPU2
18" 450mm	18.7" 475.0mm	1857AGHPU2
21" 525mm	22.1" 561.3mm	2157AGHPU2
24" 600mm	24.8" 629.9mm	2457AGHPU2

ADS SaniTite® HP TW		
Drawing numbers for reference: STD-205E: 30"-60" Triple Wall SaniTite® HP Watertight Connection Using A Manhole Boot.		
ADS PIPE SIZE O.D.	PIPE SLEEVE ADAPTER O.D.	Nyloplast PVC Product Code
30" 762 mm	35.3" 897 mm	1257AGHPU2
36" 914 mm	41.1" 1044 mm	1557AGHPU2
42" 1066 mm	47.3" 1201 mm	1857AGHPU2
48" 1219 mm	53.8" 1367 mm	2157AGHPU2
60" 1524 mm	66.7" 1694mm	2457AGHPU2

Harco PVC Pipe Manhole Adapter			
PIPE DESCRIPTION	PIPE O.D.	HARCO PART NUMBER	PSX: DIRECT DRIVE
4" 101.6 mm	4.21" 107 mm	53-3304xx	N/A
6" 152.4 mm	6.62" 168 mm	53-3306xx	N/A
8" 203.2 mm	8.40" 207 mm	53-3308xx	PSX: DD 12-11
10" 254 mm	10.50" 259 mm	53-3310xx	PSX: DD 16L
12" 300 mm	12.5" 317.5mm	53-3312xx	PSX-2 DD: 18Y
15" 375 mm	15.3" 388.6mm	53-3315xx	PSX-2 DD: 22L
18" 450mm	18.7" 475.0mm	53-3318xx	PSX-2 DD: 24S
24" 600 mm	24.8" 629.9mm	53-3324xx	PSX-2 DD: 32L
30" 762 mm	32" 813 mm	53-3330xx	PSX-2 DD: 40L
All adaptor corrugated HDPE openings connect to full profile corrugation pipe, pipe gasket provided in most cases.			
<b>NOTE:</b> Nyloplast pipe OD's match standard SDR-35 PVC Pipes			

HARCO fittings are available for all HDPE manufacturer's. Please contact for availability and pricing.

Nyloplast® Pipe OD's Match Standard Sch 35 PVC Pipe

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