# Dual Seal II

**Tylox® Cast-in, Interference Fit, Sanitary Connector**

## *Superior performance, By Design*

***The unique funnel-shaped sleeve design, and the high-tear resistance custom rubber compound, work together to offer superior flexibility under pipe deflection; while the high hoop forces generated by the exclusive pressure-ring design maintain watertight sealing around the connecting pipe O.D. This connector is an excellent and simple solution for pipe-to-manhole connections for sanitary sewer systems.***

Benefits of the Tylox® Dual Seal II Series include:

- The enhanced performance of the double-ring water stop couples with the increased embedment length of the cast-in flange to provide superior sealing capabilities at the concrete/rubber interface.
- The custom designed formulation of the synthetic rubber compound used to manufacture the Tylox® Dual Seal II connector offers improved resistance to ultra-violet and ozone degradation from exposure to sun-light when the concrete structure is stored for extended periods. The Tylox® Dual Seal II connector is also available in an "Oil-resistant" formulation. Oil-resistant connectors are identified by an orange dot on the rubber molding.
- In combination, the uniqe engineering concepts of the Tylox® Dual Seal II connector provides a watertight connection that exceeds the requirements of ASTM C923 - 13 psig (90 kPa) watertight sealing in straight alignment, and 10 psig (69 kPa) water-tight sealing at 7° axial deflection.

| Available Models & Selection Chart | | |
|---|---|---|
| **Part** | **To Suit** | **Pipe O.D. (in)** |
| BDS04-P | 4" PVC | 4.21 |
| BDS04-D | 4" Ductile Iron | 4.80 |
| BDS06-P | 6" PVC | 6.28 |
| BDS06-D | 6" Ductile Iron | 6.90 |
| BDS08-P | 8" PVC | 8.40 |
| BDS08-D | 8" Ductile Iron | 9.05 |
| BDS10-P | 10" PVC | 10.50 |
| BDS10-D | 10" Ductile Iron | 11.10 |
| BDS12-P | 12" PVC | 12.50 |
| BDS12-D | 12" Ductile Iron | 13.20 |

***Making Infrastructure Water-Tight, TODAY!***

***For A Greener, Sustainable Tomorrow***

## Installation

***Set-up for Casting-in Dual Seal II***

1. There are two halves to the mandrel.

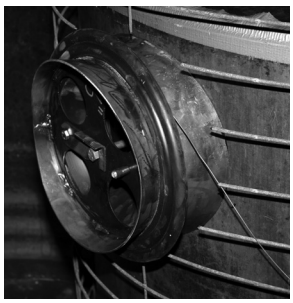
The Jacket half has the latch on it.

The Core half has the threaded bolt and alignment pin. Place Core half on table with inside facing up.

2. Place Dual Seal II on Core half, with the pressure ring facing down, and the flange resting on the Core half.
Make sure to center the Dual Seal II so the flange extends evenly around the outer edge of the mandrel.

3. Place the Jacket half of mandrel on top of flange ring by matching alignment pin and bolt holes to pin and bolt-head.
4. Close latch onto bolt (bolt is threaded and can be backed out to get latch under bolt head), then tighten bolt to keep Dual Seal II centered on mandrel during casting.

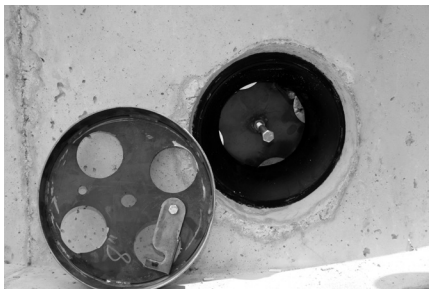
5. You are now ready to put the connector/mandrel assembly into the form for casting. The jacket half of mandrel (with latch) will be facing the jacket.



***Stripping Mandrel from Form***

1. Before attempting to remove mandrel, tap away any bleed-by of concrete, around edge of mandrel, with small hammer, on both Jacket side and Core side of mandrel.

2. To remove Jacket half. Lightly tap latch handle to disengage from bolt head (It is not necessary to loosen bolt).Using the weight of a 5 - 9 pound hammer, lightly tap the face plate of the jacket half of the mandrel 3 to 5 times. The vibration of this action will loosen the mandrel half from the concrete.
DO NOT forcefully pound on the mandrel.



3. Lightly tap the alignment post on the core half of the mandrel three to five times. The vibration of this action will loosen the mandrel half from the concrete.

***Installing Pipe***

1. Prepare the end of the connecting pipe with a 3/4" chamfer, and de-burr the pipe-end. Clean any loose dirt and debris from the first 6" of the chamfered pipe-end.
2. *Thoroughly* lubricate the O.D. of 6" length of chamfered pipe, and the inside of the Dual Seal II, using Tylox® Pipe Lubricant. ***(Hydro-carbon based lubricants must NOT be used.)***
3. Align the lubricated pipe-end centrally in the connector, and then insert into the connector using appropriate mechanical means.

*It is our recommendation that all pipe stubs be restrained from movement during testing (vacuum and/or hydrostatic). Pipe stub restraint should remain in place until future tie in of line is completed.*

Hamilton Kent
Sealing Your Connection

TEL: (800) 268 8479
FAX: (888) 674 6960
WEB: www.hamiltonkent.com
E-MAIL: sales@hamiltonkent.com

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