

IntraFlow™

Low-Profile Inside Drop System



Royal Enterprises America™

Royal Concrete Pipe, Inc. • Royal Environmental Systems, Inc. • Royal Erosion Control Systems, L.L.C.

Protect today by building for tomorrow!

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high-capacity
space-saving
design

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ENVIRONMENTAL SYSTEMS, Inc.
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Making connections to new or existing manholes has always been a royal pain. Now there's a Royal Solution... IntraFlow™!

Conventional inside drops take up too much manhole space. They make maintenance accessibility difficult and compromise worker safety. Outside drops require costly excavation and are difficult to maintain. **IntraFlow is the answer.** It's the patented, low-profile inside drop system that saves installation time, reduces excavation costs and eliminates maintenance hassles!

IntraFlow has an extremely low profile. It protrudes from the inside manhole wall a mere 7 inches, freeing up valuable space for safe maintenance access. The slim design eliminates the need for larger 60" manholes (which are often required when using conventional inside drops).

IntraFlow has tremendous flow capacity. Its broad, contoured shape easily handles high-volume inflow and accommodates up to 12" pipe. The sweep section smoothly directs sewage to the manhole invert.

IntraFlow is a modular system that fits any length. IntraFlow's patented, sectional design meets your needs. Just give us your design parameters (4' minimum) and we'll create a system that's right for your project.



Low-profile design provides a safer working environment and greater accessibility for maintenance workers.

Removable Inspection Hood
For quick, simple system cleaning and inspection

Multiple Fastening Lugs
Prevent joint disruption

EDPM Rubber Gasketed Joints
For a tight, reliable seal

Low-profile Design
System extends **only 7"** from manhole wall to outside of drop section

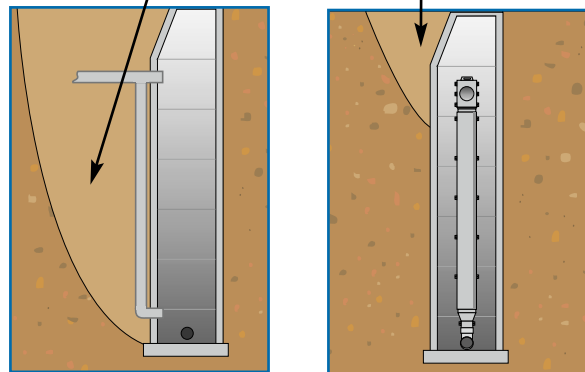
Easy-access Opening
For quick maintenance of both lateral and drop sections

Top Section Joint
Allows up to 12" system-length adjustability

Variable Length Sections
Available in lengths from 1' to 7' for varying drop heights

Sweep Section
Allows for a 90° sweep directly into the manhole invert

Eliminates Expensive Excavation
The majority of excavation costs (shown in left diagram) are eliminated with the IntraFlow System (shown in right diagram)



IntraFlow eliminates expensive outside drops. These diagrams illustrate the amount of excavation required for an outside drop vs. an IntraFlow system. IntraFlow's design results in substantial cost savings up-front and down-the-road (if the drop requires maintenance).

IntraFlow is lightweight and durable. The tough, non-corrosive polyethylene construction resists damaging H₂S gasses and most abrasive chemicals. IntraFlow stands up to the harshest sewer conditions to minimize rework.

IntraFlow installs quickly and easily. You simply secure the gasketed sections with stainless steel anchor bolts.

IntraFlow has a removable inspection hood. Grab the handle, slide up the hood and inspections, cleaning and maintenance are a breeze... without any disassembly, excavation or other hassles.



Removable inspection hood makes both lateral and drop sections readily accessible

IntraFlow's other benefits make it the obvious choice for rehab work and new construction

- Prevents impact corrosion
- Contains H₂S gasses when used with Royal's Century Manhole® Containment Cover
- Extends the life of any manhole structure
- Fastens securely without the use of straps
- Totally self-contained

This innovative product reduces life-cycle costs associated with manhole drops... from installation to maintenance, regardless of whether your project is new or rehab.

**For more information, call:
1-800-817-3240**

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