

# 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*

**Royal**  
ENVIRONMENTAL SYSTEMS, Inc.  
A Division of Royal Enterprises America

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

**C**onventional 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!

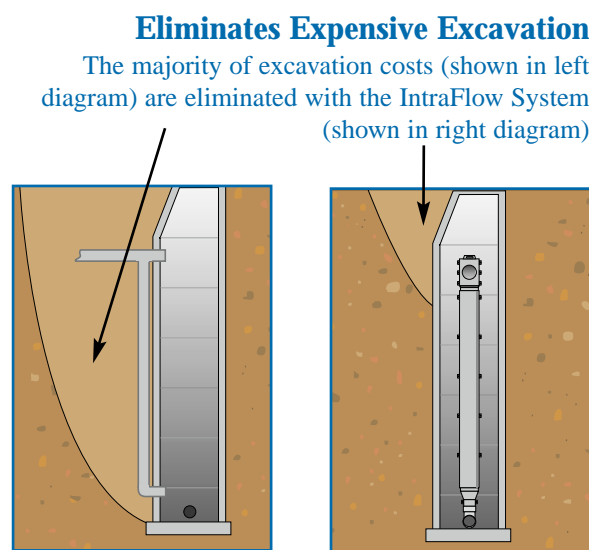
**IntraFlow has an extremely low profile.** It protrudes from the inside manhole wall a mere 7 inches, freeing up valuable space for safe maintenance access. The slim design eliminates the need for larger 60" manholes (which are often required when using conventional inside drops).

**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.*



**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).

**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



**IntraFlow is lightweight and durable.** The tough, non-corrosive polyethylene construction resists damaging H<sub>2</sub>S 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 H<sub>2</sub>S 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**

