

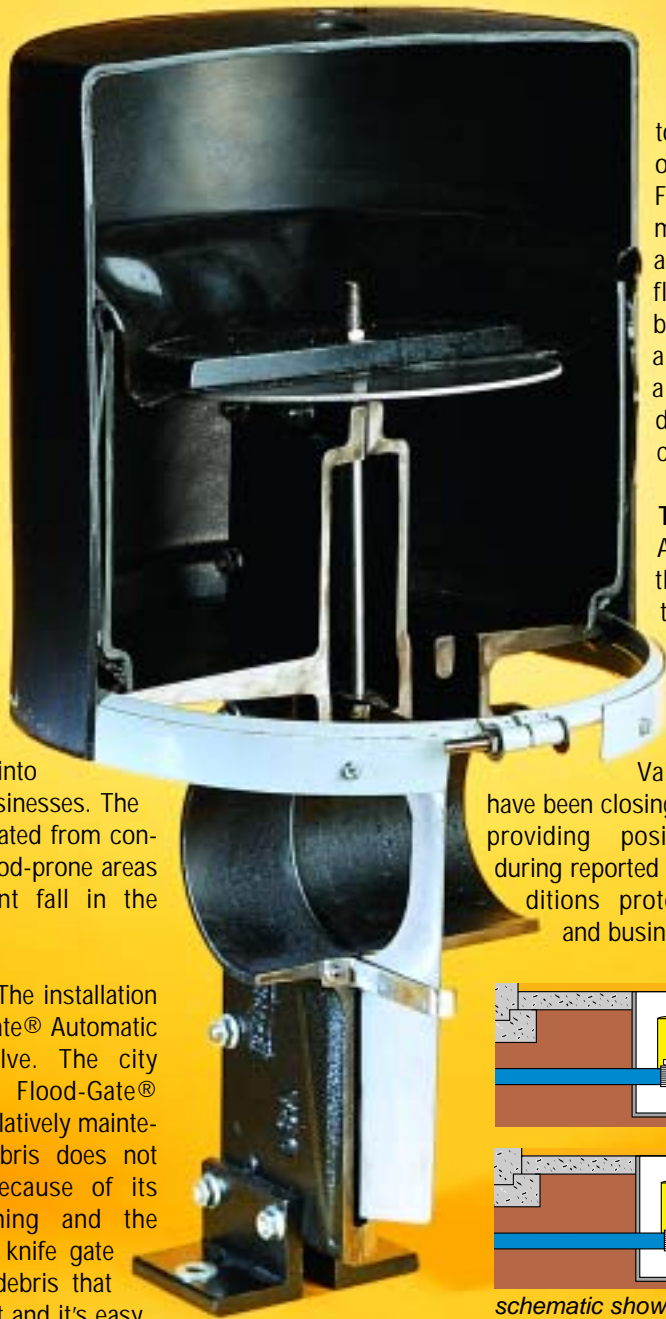
The Problem:

We needed a dependable way to prevent sewer lines from backing up into homes and businesses in flood-prone areas.

Case in point:

The Utility Department, Wastewater Collection Division, in a city in the south east is responsible for the maintenance of 2,700 miles of sewer mains and has more than 100,000 customers. During heavy rain, the water in the sanitary sewer lines backup into homes and businesses. The problem originated from construction in flood-prone areas and insufficient fall in the lines.

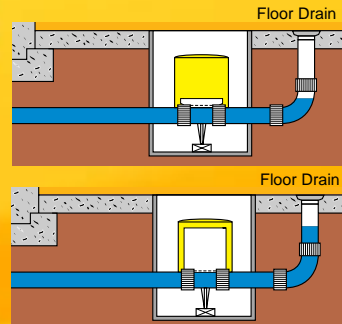
The Solution: The installation of the Flood-Gate® Automatic Backwater Valve. The city selected the Flood-Gate® because it is relatively maintenance-free; debris does not get caught because of its full-port opening and the stainless steel knife gate cuts through debris that may be present and it's easy



to install in new or existing lines. Flood-Gate® is more dependable than a flapper style backwater valve and it works automatically during back flow conditions.

The Result:

According to the city, over the past three years, the Flood-Gate® Automatic Backwater Valves installed have been closing automatically providing positive shut-off during reported back flow conditions protecting homes and businesses.



schematic shows open and closed process

The Solution:

The Flood-Gate® Automatic Backwater Valve, Fig. No. 7140, from Jay R. Smith Mfg. Co. provided positive shut-off time after time.

Flood-Gate® shown in closed position



How it Works

As the sewerage back flow occurs the trapped air in the sewerage line is forced into the expansion chamber through a port in the valve. As the expansion chamber fills with air and expands, the knife gate rises until the drainage opening is completely sealed off.

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