

Weirflex® 53 CSO



Red Valve Company, Inc.

Electrically Adjustable Weir Valve for Combined Sewers



** Patent Applied*

The new Weirflex from Red Valve is designed specifically to meet the needs of stormwater and combined sewer systems. Acting as an adjustable weir, the valve is infinitely adjustable from a full-port opening to a 98% closure, allowing flow rates of incoming stormwater or discharged effluent to be controlled.

As part of the EPA's nine minimum controls, the Weirflex reduces stormwater surges and prevents flooding of treatment plants and exceeding their maximum capacity. Used as a flow regulator, the valve maximizes storage capacity within existing collection systems piping.

The heart of the Weirflex is a tough, elastomer sleeve, the only wetted part, that provides an unobstructed opening with no seats or crevices where debris can buildup causing the valve to bind. The operating mechanism is completely isolated from the storm-water, remaining unaffected by trash bags, twigs and other debris.

An electric motor actuator allows for remote control of the valve, and simplified operation on large-diameter lines. The motor raises the bottom pinch bar beneath the sleeve. This pinching action against the sleeve creates a weir that can easily be adjusted to suit the flow rate desired. The open-frame design of the Series 53 CSO provides a visual reference of valve position.



In the open position, the Weirflex is full-ported with no obstructions



Throttling the Weirflex adjusts the level or flow rate of stormwater

| Valve Size | F to F Length | Width |
|------------|---------------|-------|
| 12" | 36" | 35" |
| 14" | 42" | 38" |
| 16" | 48" | 37" |
| 18" | 54" | 44" |
| 20" | 60" | 50" |
| 24" | 72" | 52" |
| 30" | 90" | 65" |
| 36" | 100" | 90" |
| 42" | 126" | 105" |
| 48" | 140" | 120" |
| 60" | 180" | 150" |
| 72" | 200" | 180" |