

13 x 90" Tideflex All-Rubber Check Valves installed at the Dam & Pumping Station at the mouth of Arroyo Vega stream

During 2005 the Buenos Aires City was working on the Arroyo Vega stream stormwater system and became interested in installing **Tideflex Check Valves** at its discharge into the River Plate. It was as an alternative to a costly system based on automated butterfly valves that would open or close according to river level, highly dependant on the prevailing winds.

Southeastern winds cause the huge mass of water in the River Plate (fed from the Brazilian rainforests) to slow down its discharge into the Atlantic Ocean, so the river level increases considerably and the water backs up into the Arroyo Vega stormwater system and floods the city streets and houses.



The project was developed by the Buenos Aires City Hydraulic Department and their consultants. It involves the construction of 2 pumping stations and a concrete dam at the discharge of the Arroyo Vega storm water system into River Plate.

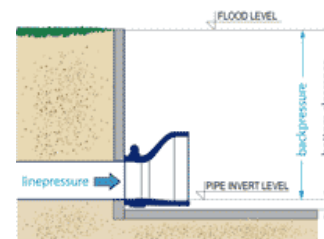
Thirteen (13) pipes 2.3m diameter cross through the body of the dam and thirteen (13) **Tideflex 90-inch neoprene slip-over check valves** have been installed.

This system is capable to discharge 85 cubic meters per second (22,500 gallons/sec) with water levels of 13.5m ahead of the dam and 12.77m at the River Plate, with the pumps turned off. In case of a storm occurring with high river level, the water level ahead of the dam would rise and the pumps should automatically turn on to help discharge the stormwater into the river.

Tideflex Check Valves

The elastomer "duckbill" **Tideflex Check Valve** was specifically designed to eliminate the operational and maintenance problems associated with flap gate check valves, including corrosion of mechanical parts, warping and clogging due to trapped debris.

[Sample Tender Specifications](#) - download



Flow Regulators

How do you protect downstream catchments against flooding?

Read about flow regulation which is the answer to the problem. **MeasurIT** supplies [water brakes/flow regulators](#) controlling the flow of surface and waste water.

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OUR PRODUCTS

Systems of Valves:

Tideflex Mixing Systems
Tideflex Effluent Diffusers

Valves:

Water Control Valves - **SINGER**
Pinch Valves (manual, air-operated)
All-rubber Check Valves - **TIDEFLEX**
Flow Regulators
Rubber Expansion Joints

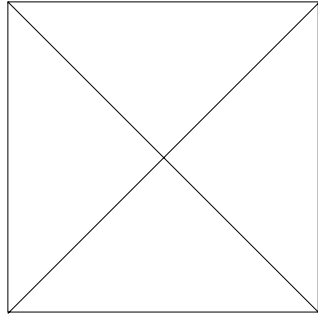
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Oil Spill Detectors - **OilSpy**
Flow Conditioners - **VORTAB**
new items! Flow Meters - **FCI** (Thermal Dispersion)
new items! Flow Meters - **FLEXIM** (Ultrasonic)
new items! Flow Meters - **ACCELABAR** (Differential Pressure)
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Pressure & Temp. Switches
new items! Pressure Sensors
new items! Level Gauges & Transmitters
pH Sensors
Suspended Solids & Turbidity Sensors
Humidity & Lux Monitoring

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Press release: [the Alternative to Flap Gates](#).