



Instrumentation & Equipment

- *Analysis*
- *Control*
- *Measure*
- *Dosing*

WATER TECHNOLOGIES

• Potable Water

• Wastewater

Flow Measurement

Closed Pipe or Pressurized Flow

- Magnetic Flowmeters
- Mass Flowmeters
- Doppler Flowmeters
- Transit time Flowmeters
- Paddle wheel Flowmeters
- No Flow Detector

Open Channel

- Magnetic Flowmeters
- Ultrasonic Flowmeters
- Bubbler Flowmeters
- Submerged Depth Flowmeters
- Area-Velocity Flowmeters
- Flumes (Parshall; Trapezoidal; H-HS-HL; Palmer-Bowlus)

Magnetic Flowmeter



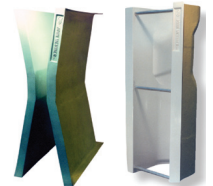
Ultrasonic Flowmeter



Flow Switch



Bubbler Flowmeter



Flumes

Level Measurement

- Ultrasonic Technology
- Radar Technology
- Piezometric Technology
- Capacitance Technology
- Level Switches



Radar Level Measurement

Level Switch



Differential Flowmeter



Microbiological Detection

- Quick and automated system for microbiological detection (Total Coliform and E.coli).

Vial



Analyzer



On-Line Measurement

- Chlorine - Ozone - Bromine
- Dissolved Oxygen, pH, ORP, Conductivity, Salinity
- Turbidity, Suspended Solids, Consistency, Particle Counter
- COD, TOC, UV254 Absorbance, Oil and Grease
- Silica, Sodium, Hardness, Alkalinity, Metals
- Ammonia-nitrogen, Nitrite, Nitrate
- Orthophosphate, Total Phosphorus



Analytical Instruments



Analyzer Panel

• Process Water

Chemical Feed

Metering System for Liquid

- Metering Pumps: Electromechanical; Mechanical; Hydraulic; Peristaltic; Gear; Progressive Cavity
- Complete Metering Skids
- Liquid Polymer Dosing Units

Metering System for Solids

- Polymer Preparation Systems
- Flexible Dosing Units (Lime; Activated Carbon; Alum; Urea; Sodium Bicarbonate; etc.)
- Silos

Integrated Dosing Systems

- Polymer Activation Sensor
- Neutralization
- Coagulation/Flocculation
- Phosphorus Reduction
- Disinfection



Dry Feeder



Polymer Preparation



Polymer Activation Sensor



Metering Skid



Hydraulic Skid with Chemflare^{MC}

Disinfection

- Ultraviolet Systems (UV)
- Liquid Chlorine Dosing Systems (Sodium Hypochlorite)
- Gaseous Chlorine Metering Systems (Cl₂)
- On-site Chlorine Generators



Peristaltic Pump



Hydraulic Pump

Sludge Pumps

- Progressive Cavity Pumps
- Macerator

Sludge Pump



Macerator



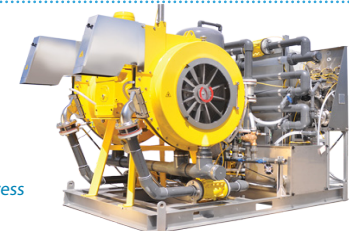
Thickener, Sludge Dewatering

- Centrifuge
- Rotary Press

Centrifuge

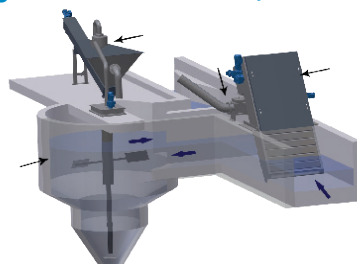


Rotary Press



Pretreatment System and CSO, SSO Stormwater Management

- Compactor
- Escalator
- Grit Removal
- Solids Handling



- HYDROVEX[®]
- Flow Control
- Level Control
- Overflow Screening



Resourcing the world

Veolia Water Technologies

4105, Sartelon Street • St-Laurent, Québec • H4S 2B3 Canada

tel: 514-334-7230 • fax: 514-334-2574

instrumentation@veolia.com • www.veoliawatertechnologies.ca