

# WaGate<sup>®</sup>

Technical Guide W4.50

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01.23 | W4.50 WAGATE

### Applications

- Waste Water
- Abrasive Fluid
- Isolation and flow control

### Product Attributes

- Design of the bonnet and stem allows for on-site adaption of gear operators, power actuators, or extension devices
- Access to the body for cleaning or inspection does not require removal from the line
- Stem seals can be easily replaced without removing the bonnet

*We are the supply partner of choice for New Zealand's civil construction industry, specialising in water and infrastructure based solutions.*

Our WaGate product range consists of gate valves, sluice gates and flap valves for flow control with corrosion free and non-polluting HDPE, EPDM and stainless steel. The valves can be customised with electric, pneumatic or hydraulic actuators.

### Areas of Use

#### PUMPING STATIONS AND SEPARATORS 1

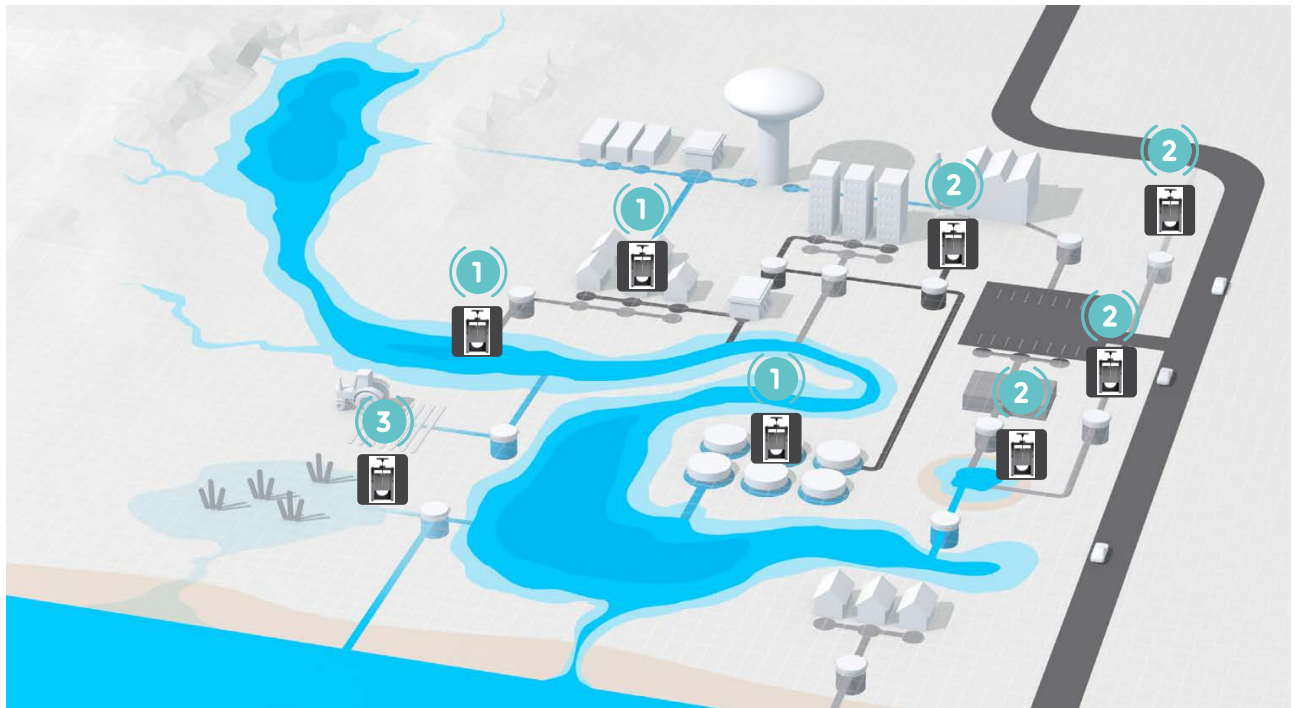
- Regulates and shuts off the incoming gravity flow
- Regulates and shuts off incoming flow in sewage and stormwater systems

#### STORMWATER 2

- Control basins and tanks
- Isolation of outgoing stormwater from industry and roads
- Isolation of contaminated water

#### IRRIGATION SYSTEMS & AGRICULTURE 3

- Protects farmland from flooding
- Stop/slow down runoff and prolong irrigation
- Quality material provides a long life-cycle and low maintenance cost



## WAGATE GATE VALVES

WaGate gate valves can be installed inline on stormwater and wastewater networks. The most common applications are to isolate run-off from roads in the case of accidents, or close off incoming flow in pumping stations during maintenance. Regulations and demands placed on industrial plants require that operators can quickly isolate and shut-off pipe networks in case of contamination. WaGate is the perfect solution in such cases.

Are available in different models from DN100 to DN1200.

Other sizes on request.



## WAGATE SLUICE GATES

WaGate sluice gates can be installed in individual chambers, pumping stations or treatment plants. A common area of use is as an emergency shut-off beside roads to prevent environmentally hazardous substances from contaminating water sources, pastures and arable land.

WaGate can also be used for stormwater isolation in event of an accident to contain any oils or other contaminants.

Are available in different models from DN200 to DN1400.

Other sizes on request.



## WAGATE FLAP VALVES

WaGate flap valves prevent backflow for stormwater and waste water in pipe systems, chambers and basins.

Used in ports, rivers and coastal areas and in the agricultural sector as well as for aquaculture.

Are available in different models from DN100 to DN1600.

Other sizes on request.





## WAGATE INSTALLATION IN WATER TREATMENT PLANT IN GREAT NECK

The Great Neck Water Pollution Control District (GNWPCD) is a special commissioner-run district within the Town of North Hempstead. The GNWPCD has been in operation since 1915 and serves more than 25,000 residents.

When a new environmental goal was set by the New York Department of Environmental Conservation requiring nitrogen removal on effluent, a project to upgrade the Great Neck Water Pollution Control District was started. The scope of the project increased the plant's daily capacity from 17275 m<sup>3</sup>/day to 24094 m<sup>3</sup>/day to meet the new increased system demands of the village of Great Neck.

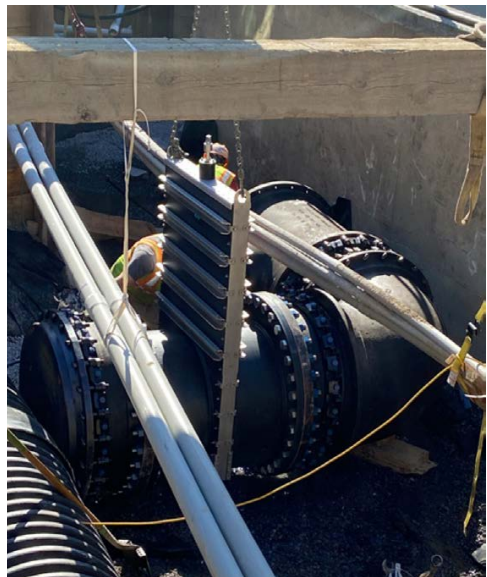
During the removal and abandonment of one of the primary settling tanks a new DN900 bypass line had to be installed.

Having worked together previously, Bancker Construction, the contractor, inquired Wapro about possibly utilising a WaGate on this application. After meetings between Wapro, the owner GNWPCD, engineer and contractor the WaGate product was approved.

The selected and approved product was a DN900 WaGate SVM-TG with a 50mm square nut operator. The valve was manufactured with eccentric flanges and special dimensions to accommodate the required lay length. Another added benefit of the WaGate is the HDPE and stainless steel construction which makes the valve suitable for corrosive environments as well contributing to its light weight.

The DN900 WaGate weighed just 250kg where other traditional cast iron gate valves weigh closer to 3600 kg.

After approval, the valve was delivered to the site in just 4 weeks and the project could move ahead without any material delay. This was a welcome relief for everyone involved. Installation completed May 2021.



## WAGATE® GATE VALVE

### ADVANTAGES OF WAGATE® GATE VALVE

- Corrosion-proof and non-polluting HDPE, EPDM and 316 Stainless Steel for functionality and a long life expectancy
- Full bore and with self-cleansing pocket to ensure total closure of the valve blade.
- Easy installation, which reduces costs
- Multiple mounting options, sleeve, flange or butt welding
- Highest quality materials
- Low operation and maintenance cost
- Operated manually with handwheel. Can be supplied with electric, pneumatic or hydraulic actuators



## WAGATE® SLUICE GATE

### ADVANTAGES OF WAGATE® SLUICE GATE

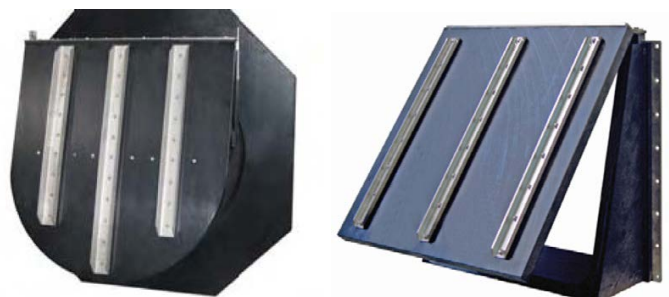
- Corrosion-proof and non-polluting HDPE, EPDM and 316 Stainless Steel. Sustainable products with no risk of deformation
- Non-welded parts. Easy cleaning and easy maintenance
- Non-rising spindle
- Max pressure: up to 14 psi on request
- Available for two-sided pressure
- Low operation and maintenance cost



## WAGATE® FLAP VALVE

### ADVANTAGES OF WAGATE® FLAP GATE

- Can be mounted below the water surface
- Corrosion-proof materials
- UV-resistant
- HDPE and 316 Stainless Steel
- High reliability
- Easy to install









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