



## Single Leaf Overshot Gate

The Single Leaf Overshot Gate dates back to the 1980's in which the first known installation in Southern Alberta was performed on the inlet to Sauder Reservoir. The simplicity of the design makes it affordable and adaptable to a number of different structure configurations. The gate can be configured as a fully assembled drop in unit, or built in two parts with the hoist assembly and gate leaf assembly installed separately.

### Application Suitability:

- Maintain constant upstream water level (such as in a check structure)
- Provide a pre-determined constant flow to downstream users (such as a turnout)

### Features:

- 3CR12 Stainless Steel gate leaf
- 1045/1050 IHCP hinge pin
- Machined cable drums
- J Seal gate to side plate seal
- 304 Stainless Steel cable
- Efficient helical worm speed reducer
- NEMA 3 electrical panel
- Stainless Steel Panel Stand
- Limit switch with optional gate position sensor
- Motor starter
- 12 or 24Vdc operation for reliability
- Independent high-level emergency assist

### Advantages:

- Simple Design allows for cost effective solution to canal control requirements
- Flexible configuration allows for a wide range of installations
- Locking bar on drum drive allows for speed reducer servicing during the water season



### Control Applications:

- Irrigation check structures
- Spillway structures
- Diversion structures
- Flood control structure

### Options:

- 304 Stainless Steel components where aggressive water is encountered
- Operation modes:
  - Manual (cordless drill operated)
  - Manual Electric
  - Automated – Upstream level or flow control

