

**awma**  
*Water Control Solutions*

# FloTrol

Metered Outlet Gate

## FEATURING

- Connectivity to new or existing SCADA networks
- Operation via solar power
- Low whole of life cost
- Robust, modular construction



D E S I G N - M A N U F A C T U R E - I N S T A L L

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### PRODUCT OVERVIEW

The FloTrol Metered Outlet Gate has been purpose designed for flow isolation and regulation on metered outlet installations.

#### GATE

The FloTrol gate is constructed from high strength marine grade aluminium. The gate leaf is single piece construction. The frame includes durable UHMWPE guides and UV stabilised flexible PVC seals.

The sealing capacity of this gate is far superior to the leakage specifications on all relevant standards including the AWWA C561-04 and BS7775:2005 standards.

The FloTrol gate is designed with mounting bolt positions that suit the common metered outlet pits to ensure a fast installation time.

FloTrol gates are manufactured by Australia's largest specialist penstock manufacturer AWMA's ISO 9001:2008 quality accredited system ensures that each gate is manufactured to the highest standard, tested and commissioned for ease of installation and trouble free operation.

#### ACTUATION

AWMA have selected the Linak LA-36 Modbus linear actuator to drive the gate. Linak is the worlds largest and most advanced designer and manufacturer of low voltage linear actuators.

#### The LA-36 features:

- Thrust up to 10,000 N
- Heavy duty aluminium housing to withstand harsh conditions
- Protection rating IP66 (dynamic) IP69 (static)
- Manual override
- Ambient operating temperature -30°C to +65°C
- All instrumentation is integrated within the actuator housing

#### ACTUATOR INTERFACE

The LA-36 actuator includes an embedded Modbus (RS485) interface.

#### Features include:

- Proven integration with existing SCADA systems via Modbus
- Electronic overload protection prevents damage to components
- Adjustable actuator speed
- Soft start/stop to reduce mechanical stress
- All settings programmable via serial communications
- High resolution position sensing

#### MAINTENANCE

The FloTrol metered outlet gate has been designed to be maintenance free for the life of the gate.

Should damage occur, all components have been designed for ease of repair on-site, with the actuation system replaceable within 20 minutes.

Manual override of the actuator is possible during emergency conditions.



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## FloTrol 600 Specifications

Frame Material	Aluminium Extrusions GR 6351-T6
Door Material	16mm Aluminium Sheet GR 5083 - H116
Guide Material	UHMWPE
Seal Material	Flexible PVC
Actuator	Linak, LA-36 Modbus - 362C55+AD750B27
Supply Current	12 VDC
Continuous Current Draw	100mA
Frame Total Width	1380 mm
Frame Total Height	3300 mm
Open Waterway Width	1138 mm
Door Travel	750 mm
Door Travel Speed	4.5 mm/sec

## FloTrol 450 Specifications

Frame Material	Aluminium Extrusions GR 6351-T6
Door Material	12mm Aluminium Sheet GR 5083 - H116
Guide Material	UHMWPE
Seal Material	Flexible PVC
Actuator	Linak, LA-36 Modbus - 362C55+AD500B27
Supply Current	12 VDC
Continuous Current Draw	100mA
Frame Total Width	1022 mm
Frame Total Height	2800 mm
Open Waterway Width	780 mm
Door Travel	500 mm
Door Travel Speed	4.5 mm/sec