

# SPECIALISED WATER CONTROL GATES

AWMA specialise in engineering bespoke water control gates to meet project requirements.

## FEATURES & BENEFITS

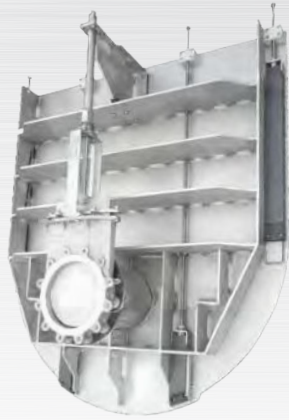
- Extremely high head pressure (proven up to 100 tonne).
- Full perimeter sealing.
- Materials to withstand aggressive environments.
- Diverse sizes and orifices.
- Accommodating short shut-down periods.
- Unique retrofit to site requirements.
- Highly specified conditions.
- For sites allowing no or restricted civil works.
- Submerged installations.
- Integration into fully automated processes.
- Containment of dry, solid or gaseous mediums.
- Chemical containment.
- Underground (tunnelling or mining) applications.
- Low impact designs to minimise injury to ecological assets.
- Infrastructure with 100 year life expectancy.
- Low whole of life costs.



## APPLICATIONS

- AWMA develop, design, manufacture and install specialised control gates and associated automation systems for applications across all industry sectors.

*AWMA*  
*Water Control Solutions*



# SPECIALISED WATER CONTROL GATES

## DESIGN

### DESIGN SUPPORT

- AWMA's R&D and Engineering teams are available under Early Contractor Involvement (ECI), to assist in developing water control and screening solutions for bespoke green-field and brown-field sites.

### SIZES

- All of AWMA's Water Control Systems are custom sized to ensure they meet specific site requirements.

### MATERIALS

- AWMA select materials to meet a minimum design life of 25 years. Where required, AWMA can offer higher grade materials, coatings and protection systems to extend the design life to 100+ years.
- Materials used in the construction of AWMA's specialised gate range have a high corrosion resistance and can be operated for many years with minimal maintenance.

### SEALING

- The seal performance of AWMA Water Control Gates exceed that required by the 'Australian Technical Specification for Fabricated Water Control Infrastructure'.

### MAINTENANCE

- AWMA's gates typically have a minimum 25 year design life.
- Minimal maintenance is required offering low 'whole of life costs'.

## MANUFACTURE

### QUALITY

- All AWMA products meet relevant Australian and international standards.
- AWMA hold international accreditations for ISO 9001; Quality, ISO 14001; Environment and ISO 45001 OH&S management.
- AWMA's Integrated Management System aims to provide a framework to deliver products and services that consistently exceed customer expectations.

## INSTALLATION

### MOUNTING OPTIONS

- Gate products are developed to meet specifications.
- Early project involvement ensures development of the most appropriate gate product and specifications for the application.

### ACTUATION SYSTEMS

- AWMA offer numerous options for operation including manual, mechanical, automated, hydraulic, pneumatic, powered or electrically actuated systems.
- Staged upgrade programs are also available.

### OPERATION SYSTEMS

- A range of options are available for control and operation of specialised gate systems:
  - Integration into new or existing SCADA systems optional.
  - Global, web based operating platforms for remote control and monitoring.
  - Solar, mains, pneumatic or hydraulically powered.
  - Variety of lifting mechanisms available, including AWMA's self-engaging lifting frame.
- Storage and transportation solutions available.
- Associated systems include warning lights, water level indicators, automated message systems, reflective signage, video feeds and battery backups.

## COMMISSIONING

### DOCUMENTATION AND TRAINING

- Detailed documentation on operation, testing procedures and maintenance will be provided with all AWMA flood defence systems.
- Comprehensive on and/or off site training available.