

## SPECIALISED WATER CONTROL GATES

AWMA specialise in engineering one-off products for site specific water, effluent and odour control.



### FEATURES

- Extremely high head pressure (proven up to 100 tonne)
- Full perimeter sealing
- Materials to withstand aggressive environments
- Diverse size orifices
- Accommodating short shut-down periods
- Unique retrofit site requirements
- Highly specified conditions
- Where no civil works are allowed
- 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



## SPECIALISED WATER CONTROL GATES

### DESIGN

#### DESIGN SUPPORT

- AWMA's design team will provide full support to ensure the most appropriate solution is developed and specified during the preliminary design.

#### 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 for door and frames include marine grade aluminium and grades 304, 316, 2205 and 2507 stainless steel.
- AWMA use ultra high molecular weight polyethylene (UHMWPE) for door guides to provide maintenance free bearing surfaces.
- Plasticised PVC or EPDM are used for the manufacture of seals. These materials offer superior endurance in wastewater and freshwater applications.
- Materials used in the construction of AWMA's 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 fabrication is in accordance with the 'Australian Technical Specification for Fabricated Water Control Infrastructure'.

- All procedures are in accordance with AWMA's accredited ISO 9001 Quality Management System to ensure each gate is manufactured to a high standard, tested and ready for trouble free operation post approved installation.

### 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.