



## **FEATURES**

- The design includes a gate leaf that is hinged across the bottom and actuated via a cable hoist mechanism.
- Single bay and multi-bay designs available.
- The LayFlat Gate range has a dedicated volumetric flow algorithm available that has been independently certified to guarantee an accuracy better than ± 5%.
- The modular design allows for the actuation system to be self contained or separately mounted.
- Accurate overshot flow and level control.
- Integrated emergency bulkhead guides.
- Suits structure openings of all sizes and are custom sized to suit their required application.

# **APPLICATIONS**

- The LayFlat Gate range is utilised for applications across all industry sectors.
- To date, AWMA has manufactured Australia's largest tilting LayFlat Gates with five LayFlats 4mx4m in size, required to regulate environmental flows.
- Proven to accuratly regulate irrigation, environmental and storm water flows.
- Fish-friendly, suitable for environmental applications.





# LAYFLAT 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 AWMA water control gates are custom sized to ensure they meet specific site and operational requirements.
- · Customisation reduces installation costs.

#### **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.
- AWMA use ultra high molecular weight polyethylene (UHMWPE) for penstock door guides and/or wedges 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 for penstock door and frames include marine grade aluminium and grades 304, 316, 2205 and 2507 stainless steel.
- Alternative material options are available to suit the application and/ or environment specific requirements.
- Materials used in the construction of the Bulkhead range have a high corrosion resistance and can be operated for many years with minimal maintenance.

#### SEALING

 The sealing ability of this gate exceeds that required by the 'Australian Technical Specification for Fabricated Water Control Infrastructure'.

### MAINTENANCE

- The LayFlat range has a minimum 25 year design life.
- Minimal maintenance is required offering low "whole of life costs".
- If required, all the wearing components can be changed, with ease, on site.

## **MANUFACTURE**

## QUALITY

 All fabrication is in accordance with the 'Australian Technical Specification for Fabricated Water Control Infrastructure'.

- All stainless steel welding is continuous to avoid crevice corrosion.
- 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

- The LayFlat Gates can be mounted to the upstream or downstream side of new or existing structures to maintain 100% of the original open waterway.
- Alternatively they can be mounted inside the structures.
- Options include:
- Upstream slab mount; self contained actuation
- In structure mount; separately mounted actuation
- In structure mount; separately mounted raised actuation.

#### ACTUATION SYSTEMS

- Handwheel, electric, hydraulic or pneumatic actuator.
- Portable actuation systems available.

#### **OPERATION SYSTEMS**

- Integration into new or existing SCADA systems optional.
- Global, web based operating platforms for remote control and monitoring.

# **COMMISSIONING**

#### DOCUMENTATION AND TRAINING

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





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