HEAD & DISCHARGE GATES

AWMA's Head & Discharge Gate range is a dual leaf gate design consisting of overshot and undershot gates in the one frame.

FEATURES

- Regulate flows and water levels with the upper gate leaf.
- Set flow rate or fully drain the upstream pool with the
- lower gate leaf.Suitable for single and multi-bay sites.
- Uni-directional sealing as standard.
- Both rising and non-rising spindle configurations available.
- Accurate overshot and undershot flow and level control.
 Custom designed and fabricated to suit any size or shaped orifice.

APPLICATIONS

- The Head & Discharge Gate range is utilised for applications across all industry sectors.
- Most commly used for regulating and draining open channel systems.





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HEAD & **DISCHARGE 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 gates and frames include marine grade aluminium and grades 304, 316, 2205 and 2507 stainless steel.
- Materials used in the construction of the Combination Gate 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 Head & Discharge Gate 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 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

- · Head & Discharge Gates are typically wall mounted. • The side frames can be face mounted or embedded.
- The sill is available in a raised or flat sill configuration.

ACTUATION SYSTEMS

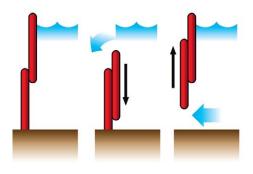
- · Handwheel, electric, hydraulic or pneumatic actuator.
- · Portable actuation systems available.

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.







HEAD OFFICE

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