

# BULKHEADS & ROLLER GATES

AWMA's range of Bulkheads and Roller Gates significantly reduce friction associated issues of in-flow insertion and containment for high head isolation applications.

## FEATURES & BENEFITS

- AWMA design options include equalisation valves and roller guides to allow Bulkhead Gates to be operated under flow conditions.
- Top seals are available for submerged apertures.
- Designed to withstand high head pressures.
- Uni-directional sealing as standard with bi-directional models available on request.
- Variety of lifting mechanisms optional.
- Storage solutions available.

## APPLICATIONS

- The Bulkhead Gate range is utilised for applications across all industry sectors.
- Isolation of open channel flow for maintenance purposes.
- Emergency isolation points.





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## 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 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 meets the 'Australian Technical Specification for Fabricated Water Control Infrastructure'.

### MAINTENANCE

- The Bulkhead 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 AWMA products meet relevant Australian and international standards.
- 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.
- 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

- The Bulkhead frames are designed for wall, channel or embedded side frame mounting.
- The sill is available in a raised or flat sill configuration.

### ACTUATION SYSTEMS

- Mechanical lifting devices available.

### OPERATION SYSTEMS

- Variety of lifting mechanisms available, including AWMA's self-engaging lifting frame.

## 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.