

SLF PENSTOCKS

AWMA's SLF Wedge Penstock range consists of an undershot gate with a full perimeter seal, providing flow isolation for fully submerged ON or OFF seating applications.

FEATURES

- SLF Penstocks are designed to achieve industry leading seal performance.
- Integration of UHMWPE wedges compress seals when gate is closed for excellent sealing.
- Full perimeter continuous seal, mechanically affixed to gate leaf.
- Seals manufactured from plasticised PVC.
- Bi-directional sealing as standard feature.
- All serviceable components affixed to the gate leaf for ease of maintenance.
- Available in rising and non-rising spindle configurations.
- Custom designed and fabricated to suit any size or shaped orifice.

APPLICATIONS

- Full perimeter seal provides excellent sealing performance for applications across all industry sectors.
- Isolation of pipe openings and orifices over 300mm in diameter.



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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 wedges to provide maintenance free bearing surfaces.
- Materials used for penstock door and frames include grades 304, 316, 2205 and 2507 stainless steel.
- Materials used in the construction of the SLF Penstock range have a high corrosion resistance and can be operated for many years with minimal maintenance.

SEALING

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

MAINTENANCE

- The SLF Penstock range has a minimum 25year 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 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

- Ideal for pit and headwall installations
- The SLF Penstocks are typically wall mounted.

SPINDLE OPTIONS

- Choose from
 - Rising Spindle,
 - Non-Rising Spindle or
 - AWMA's Rising/Non-Rising Spindle Arrangement

ACTUATION SYSTEMS

- Include:
 - Manual
 - Portable Actuator
 - DC Motor
 - AC
 - Hydraulic
 - Pneumatic

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.