



A Division of Ludowici Australia Pty Ltd
ABN 88 010 340 566



enquiry@watergates.com.au
www.watergates.com.au

18 Hansells Parade
Riverview 4303 Qld Australia

p +61 7 3816 1660
f +61 7 3816 2662

Penstock Enquiry Form

Top Seal Penstock Models – 25, 50, WC and WR series

Channel Penstock Models – US series

Project Details

Project Name:

Date:

Project Location:

Organisation:

If Alliance, Partners:

Contact Person:

Position:

Phone:

Email:

Penstock Details

Penstock Qty:

Penstock Tag Number/s:

Media: Sewage Storm Water Sea Water Other

Material: 316 stainless steel 304ss Aluminium Other

Top seal required: Yes No (Channel type penstock if “No” i.e. Watergates US)

Channel penstock freeboard required:

Opening size: mm wide x mm high Travel: mm

Invert to operating floor level dimension: mm IL: Floor RL:

Opening direction: Upwards Head at invert: m on-seating

Downwards (weir penstock) m off-seating

Stem: Rising Non-rising

Mounting:

Side frames Wall Mounted Embedded Side Wall Mounted

Invert Wall Mounted Embedded Floor Mounted



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Method of operation: Manual Handwheel Removable T-Key
Electric actuator Pneumatic actuator Hydraulic actuator
Suitable for portable electric actuation*: Yes No *If handwheel operation selected

Anticipated operational frequency:

Minimum required open/close time or travel speed:

Delivery Address:

Notes/Sketch: (please attach any available drawings)

Some commonly used terms:

Actuator – electric, pneumatic, oil hydraulic, water hydraulic

Embedded – frame is recessed into either the wall or floor

Invert – bottom level of the opening

Lift – handwheel, geared operator

Non-rising stem– the stem is fixed to the lift or actuator nut and turns relative to the door. The lift nut is often on the gate

Off seating – water pressure pushes penstock off the wall

On seating – water pressure pushes penstock onto the wall

Operating Floor Level – Floor level at the operator's feet

Pedestal – stand onto which is mounted the lift or the actuator

Rim Pull –Force required at rim of handwheel to operate penstock

Rising stem or spindle – the stem rises through the lift or actuator and is bolted to the door. It does not rotate

Self contained – the penstock is shipped to site with a complete frame and does not require assembly

Stem guide – ensures that the stem is supported at adequate intervals to prevent buckling. (usually $L/r < 200$ where L = effective length, $r = \frac{1}{4}$ dia.)

Top seal – is required over any opening or pipe in a wall but not required in channels

Wall mounted – penstock is bolted to the wall with 316ss and chemical anchors complete with backing nuts and the gap between the wall and penstock filled with non-shrink grout

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