



**Rodney  
Industries**

A Division of Vinidex Pty Limited

# CHANNEL GATES



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# CHANNEL GATES

*Setting the benchmark in  
flood irrigation  
and channel control*



For more than 25 years we at Rodney Industries have been supplying the Australian market with our range of Channel Gates.

We understand the importance of quality, durability and performance and that is why we offer a range of Channel Gates designed to offer years of trouble free service.

Whether the Channel Gate is for agricultural irrigation channelling, water storage dams, flood prevention or even for environmental protection control, we have the gate to suit your requirements.

## HOW TO CHOOSE THE RIGHT CHANNEL GATE



Need a Channel Gate but unsure as to which Gate will best suit your project requirements?

The following is a breakdown of sizes and options available throughout our Channel Gate range.

### GATE SIZE

We understand that not every installation is the same, and it is for that reason, we have one of the largest range of Channel Gate sizes available:

- 450mm
- 500mm
- 600mm
- 750mm
- 900mm
- 1050mm
- 1200mm
- 1350mm
- 1500mm
- 1650mm
- 1800mm

### IT'S STANDARD

To ensure consistently high quality in our Channel Gate range, a number of components are manufactured to Australian Standards:

- **Body and Disc:**  
Hot dipped galvanized to AS/NZS 4680-2006
- **End Flange Dimensions and Flange Gasket Facing:**  
To suit AS2129 Table D
- **Bolting:**  
Class 70 or 4.6 AS 1111

### MAST & MAST EXTENSIONS

Mast and Mast Extensions are fitted so that the hand wheel height is at a suitable operating level.

Our Channel Gates can be manufactured to your mast requirements.





Our Channel Gates are designed and manufactured in Brisbane, Queensland; offering the following features:

- Fully galvanized steel construction
- Self aligning mast bearings
- Negative and positive head capable (*on or off seat*)
- Fully enclosed threaded mechanism 4, 6 and 10 metres
- Mast extensions to job requirements
- Over size sintered bushed roller locks
- Cam adjusted phosphor bronze rollers guide rollers on all models.



## HEAD SIZE

The maximum working pressure of the standard Channel Gate is referred to as head pressure above the valve.

This measurement is taken as the height from the pipe centre of the valve spigot to the surface of the water storage.

Rodney Industry valves have separate models to suit the following maximum head pressures.

- 2 Mtr
- 4 Mtr
- 6 Mtr
- 10 Mtr

## FURTHER OPTIONS

Further options for consideration are as follows:

- Mast Stabilizer Brackets
- Gate Open Indicator
- Turning Mechanism:  
Handle or Hydraulic cylinder
- Gear Reduction  
(*only when head > 4mtrs on 1500mm to 1800mm sizes*).

## HOW WILL IT BE ATTACHED?

Rodney Industries Channel Gates can be supplied with standard or special spigots to enable a number of installation methods

- Grout in Spigots to suit concrete pipes and head walls
- Weld on Spigots to suit steel pipe or tanks
- Flanged Spigots to suit flanged pipes
- Compression rings to suit poly, steel or concrete pipe end fitments.

## HEADWALL MOUNTING BRACKETS

Headwall mounting brackets are available as an option for all gates and are advised for compression seal spigot installations. Flange spigot hole positions can vary to different flange types and ratings and should be checked to ensure that this orientation can be achieved.

The Channel Gate should not be stressed or strained back to an uneven surface as this can affect its ability to seal, headwall mounting brackets are designed to be used with nuts and washers on both sides of the bracket to keep the gate stress free.



# DATA SPECIFICATIONS

| Channel Gate Details                   | Specifications                               |
|--|--|
| <b>Valve General Description</b>       |  |
| Class                                  | N/A  |
| Port                                   | Full Port                                    |
| Type                                   | Channel Gate                                 |
| Body Construction                      | Fabricated Steel                             |
| End Flange Requirements                | One End AS2129 Table D                       |
| Weld on spigot                         | One End OD/ID to suit pipe                   |
| Grout in spigot                        | One End to suit Class 2 ID of concrete pipe  |
| <b>Pressure and Temperature Design</b> |  |
| Operable Temperature Range             | -29 to 50°C                                  |
| Allowable Pressure                     | Max pressure/ head allowable designated by   |
| <b>Valve Design and Standards</b>      |  |
| Body                                   | Support Frame                                |
| General Valve Design                   | Sliding Gate                                 |
| Shell Wall Thickness                   | 4mm - 12mm                                   |
| Face to Face Dimension                 | N/A  |
| End Flange Dimensions and Flange       | To Suit AS2129 Table D                       |
| <b>Construction and Materials</b>      |  |
| Body                                   | Hot Dipped Galvanized to AS/NZS 4680-2006    |
| Disc                                   | Hot Dipped Galvanized to AS/NZS 4680-2006    |
| Bolting                                | Class 70 or 4.6 AS 1111                      |
| Mast Bearings                          | Self Aligning                                |
| Top Roller Lock                        | N/A  |
| Bottom Roller Lock                     | N/A  |
| Axle Roller and Door Guide             | Self Lubricating Bushed/ Bronze Construction |
| <b>Size Range</b>                      |  |
| Nominal Size Range                     | DN 450 - DN 1800                             |
| <b>Inspection Standards</b>            |  |
| Pressure Test                          | Required 1.22 x Rating                       |
| Inspection Requirements                | N/A  |
| Fire Test                              | N/A  |
| Marking                                | Max Allowable Head 2mtrs - 10mtrs            |
| Material Certification                 | N/A  |
| <b>Manufacturer</b>                    |  |
| Manufacturer                           | Rodney Industries                            |
| <b>Actuation</b>                       |  |
| Actuation                              | Manual Handwheel/ Hydraulic                  |

## SPARE PARTS

Spare parts are readily available for our Channel Gates; from the seals all the way to the axle roller.

If your customer requires a part urgently, Rodney Industries can ship direct to them to speed up the process.



## DESIGNED TO ASSIST

As with any installation, there are other components that are required to complete the job. That is why Rodney Industries offers a range of Eco Check Valves, Gibault Joints and Head Wall Brackets which can be modified to suit your needs.



Eco Check Valve

Eco Check Valve (with hatch)

Gibault Joint

Head Wall Bracket

Please note weights and dimensions are to be used as a guide only. Contact Rodney Industries or your local distributor for more detailed specifications.

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