

# Gillies Resilient Seated Bypass Valves

Technical Guide W4.82

Gillies Resilient Seated Bypass Gate Valves are designed and manufactured to AS/NZS2638.2:2011. These valves are suitable for use in potable water and for installation above or below ground.



## Applications

Potable water networks, Bulk water storage, Process water systems, Pump stations, Neutral liquids without solids

## Product Attributes

PN16 Rated

Available as Anti-Clockwise and Clockwise Closing

Smooth straight through bore

## Approvals/Standards

AS/NZS 2638.2:2011 Gate Valves for Water Works – Resilient Seated

Flanges drilled to AS/NZS 4087 Fig. B5

Coating complies with AS/NZS 4020 for potable water

## Quality/Environment/Health & Safety

Hynds management systems are certified to ISO 9001:2015, 45001:2015, and 14001:2018 standards



Licence Number:  
23494



Appraisal Number:  
PA 2508



Licence Number:  
4085

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**HYNDSwater**

Gillies Resilient Seated Bypass Gate Valves are manufactured from high strength and corrosion resistant materials to provide reliable service in potable water networks. These valves are PN16 rated, available in DN450 – DN600 with a DN100 or DN150 Bypass as anti-clockwise or clockwise closing.

### Product Features

- Anti-clockwise closing or clockwise closing available.
- Smooth straight-through bore prevents debris build up.
- Ductile Iron body and bonnet for high strength and impact resistance.
- Ductile Iron wedge fully encapsulated by EPDM elastomer to ensure a drip tight seal.
- 431 Grade Stainless Steel Stem and 316 Grade Stainless Steel Bolts for high corrosion resistance.
- Spindle O-Rings are replaceable under operating pressure.
- Fusion Bonded Epoxy coating to AS/NZS 4158 provides long lasting corrosion protection.

### Accessories

- Supplied with Spindle Cap as standard.
- Handwheels available as optional.
- Actuator Adaptor with ISO flange drilling available as optional (Spindle change is required).

### Technical Specifications

- Size Range: DN450 – DN600
- Complies with AS/NZS 2638.2:2011
- Flanges drilled to AS/NZS 4087 Fig. B5
- Coating complies with AS/NZS4158
- Potable water compliant to AS/NZS 4020
- Maximum operating temperature: 40°C
- Allowable operating pressure: 16 Bar
- This product complies with the requirements of Lead-Free Standards as defined in the National Construction Code Volume 3 and is suitable

### Installation

Suitable for above or below ground installation in accordance to relevant local authority requirements and regulatory codes.



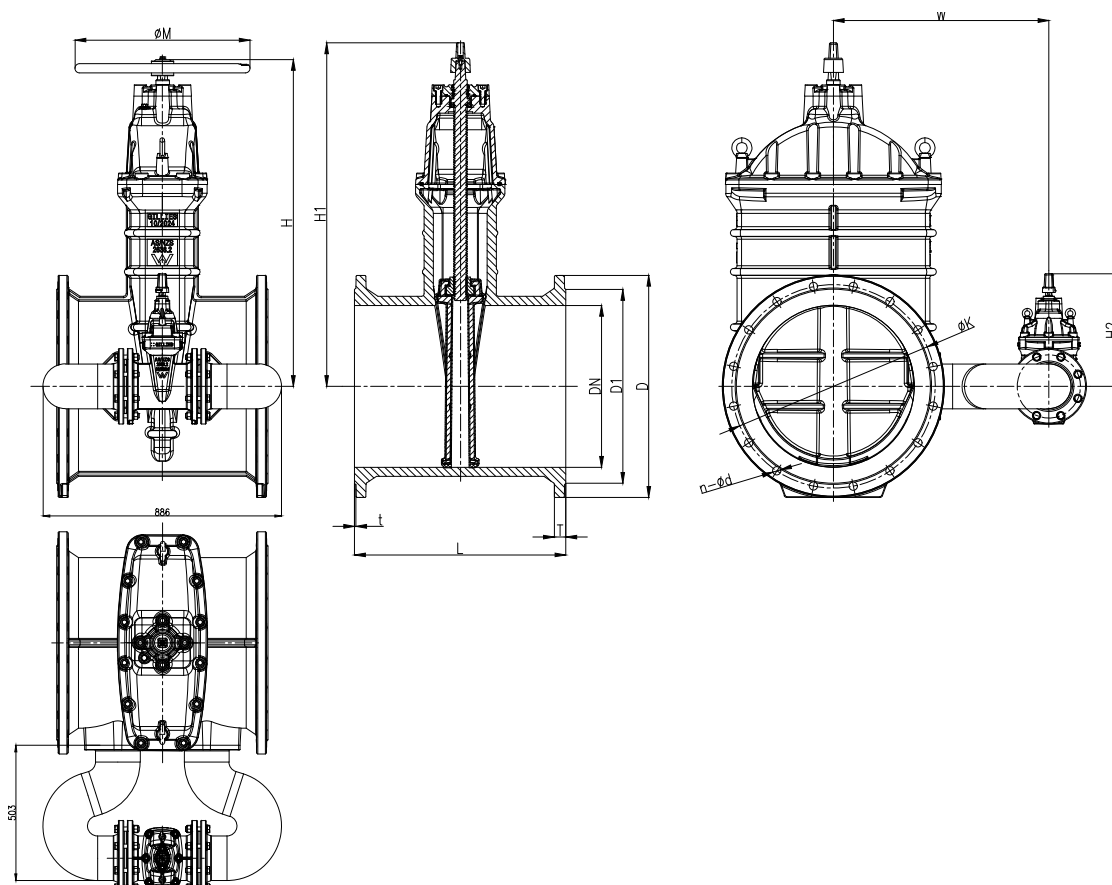


TABLE 1

| Code         | DN  | L   | D   | D1  | K   | n-Ød   | T  | t | H    | H1   | W   | ØM   |
|--------------|-----|-----|-----|-----|-----|--------|----|---|------|------|-----|------|
| VGRS450150BP | 450 | 660 | 640 | 552 | 584 | 12-Ø26 | 33 | 4 | 975  | 1025 | 725 | Ø650 |
| VGRS500150BP | 500 | 710 | 705 | 609 | 641 | 16-Ø26 | 35 | 4 | 1065 | 1100 | 750 | Ø650 |
| VGRS600150BP | 600 | 785 | 825 | 720 | 756 | 16-Ø30 | 42 | 5 | 1225 | 1275 | 800 | Ø650 |

| Code         | Bypass-Valve (DN) | Switch Turns | Closing Torque (N.m) | Weight (kg) |
|--------------|-------------------|--------------|----------------------|-------------|
| VGRS450150BP | 150               | 28           | 400                  | 423         |
| VGRS500150BP | 150               | 32           | 450                  | 493         |
| VGRS600150BP | 150               | 34           | 550                  | 740         |

TABLE 2

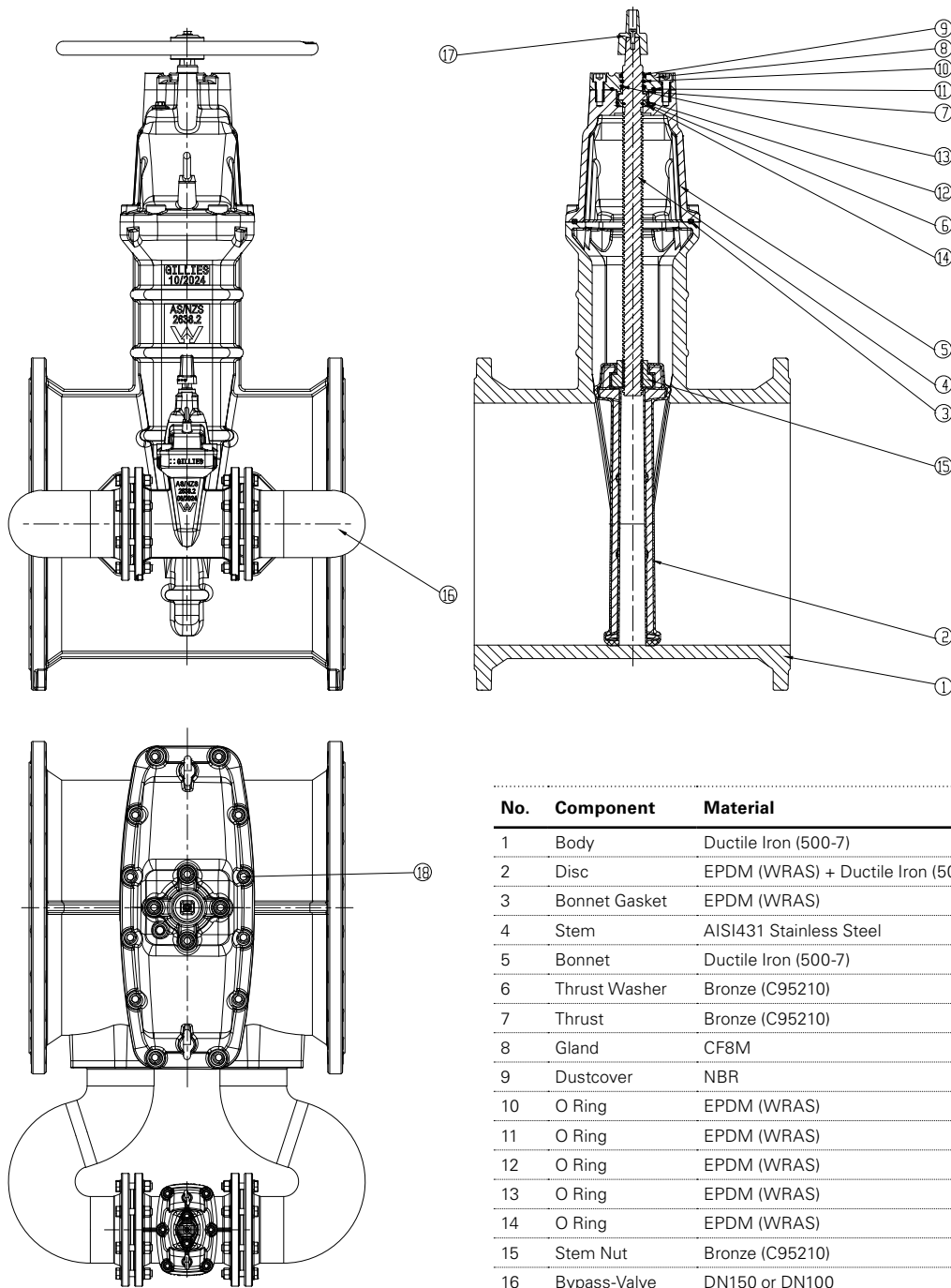
| Code         | DN  | L   | D   | D1  | K   | n-Ød   | T  | t | H    | H1   | W   | ØM   |
|--------------|-----|-----|-----|-----|-----|--------|----|---|------|------|-----|------|
| VGRS450100BP | 450 | 660 | 640 | 552 | 584 | 12-Ø26 | 33 | 4 | 975  | 1025 | 625 | Ø650 |
| VGRS500100BP | 500 | 710 | 705 | 609 | 641 | 16-Ø26 | 35 | 4 | 1065 | 1100 | 650 | Ø650 |
| VGRS600100BP | 600 | 785 | 825 | 720 | 756 | 16-Ø30 | 42 | 5 | 1225 | 1275 | 700 | Ø650 |

| Code         | Bypass-Valve (DN) | Switch Turns | Closing Torque (N.m) | Weight (kg) |
|--------------|-------------------|--------------|----------------------|-------------|
| VGRS450100BP | 100               | 28           | 400                  | 423         |
| VGRS500100BP | 100               | 32           | 450                  | 493         |
| VGRS600100BP | 100               | 34           | 550                  | 740         |

TABLE 3 Bypass Valve Technical Information

| DN  | L   | D   | D1  | H2  | K   | n-Ød  | T  | t | Switch Turns | Closing Torque (N.m) |
|-----|-----|-----|-----|-----|-----|-------|----|---|--------------|----------------------|
| 150 | 267 | 280 | 211 | 410 | 235 | 8-Ø18 | 23 | 3 | 17           | 120                  |
| 100 | 229 | 215 | 154 | 335 | 178 | 4-Ø18 | 20 | 3 | 12           | 80                   |

**Note:** Bypass Valves are available by indent only in NZ.



| No. | Component     | Material                           |
|-----|---------------|------------------------------------|
| 1   | Body          | Ductile Iron (500-7)               |
| 2   | Disc          | EPDM (WRAS) + Ductile Iron (500-7) |
| 3   | Bonnet Gasket | EPDM (WRAS)                        |
| 4   | Stem          | AISI431 Stainless Steel            |
| 5   | Bonnet        | Ductile Iron (500-7)               |
| 6   | Thrust Washer | Bronze (C95210)                    |
| 7   | Thrust        | Bronze (C95210)                    |
| 8   | Gland         | CF8M                               |
| 9   | Dustcover     | NBR                                |
| 10  | O Ring        | EPDM (WRAS)                        |
| 11  | O Ring        | EPDM (WRAS)                        |
| 12  | O Ring        | EPDM (WRAS)                        |
| 13  | O Ring        | EPDM (WRAS)                        |
| 14  | O Ring        | EPDM (WRAS)                        |
| 15  | Stem Nut      | Bronze (C95210)                    |
| 16  | Bypass-Valve  | DN150 or DN100                     |
| 17  | Cap           | Ductile Iron (500-7)               |
| 18  | Screw         | AISI316 Stainless Steel            |

**Branches Nationwide** Support Office & Technical Services 0800 93 7473

**Disclaimer:** While every effort has been made to ensure that the information in this document is correct and accurate, users of Hynds product or information within this document must make their own assessment of suitability for their particular application. Product dimensions are nominal only, and should be verified if critical to a particular installation. No warranty is either expressed, implied, or statutory made by Hynds unless expressly stated in any sale and purchase agreement entered into between Hynds and the user.