HYGRADEWATER INFRASTRUCTURE

GILLIES - EST. 1943 -

Gillies Resilient Seated Bypass Valves

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.



TECHNICAL GUIDE: **AVH1.37**

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

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

Lead Free — *Licence Number: 23494*

WATER SERVICES ASSOCIATION OF AUSTRALIA — *Appraisal Number: PA 2508*

Licence Number: 4085

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.

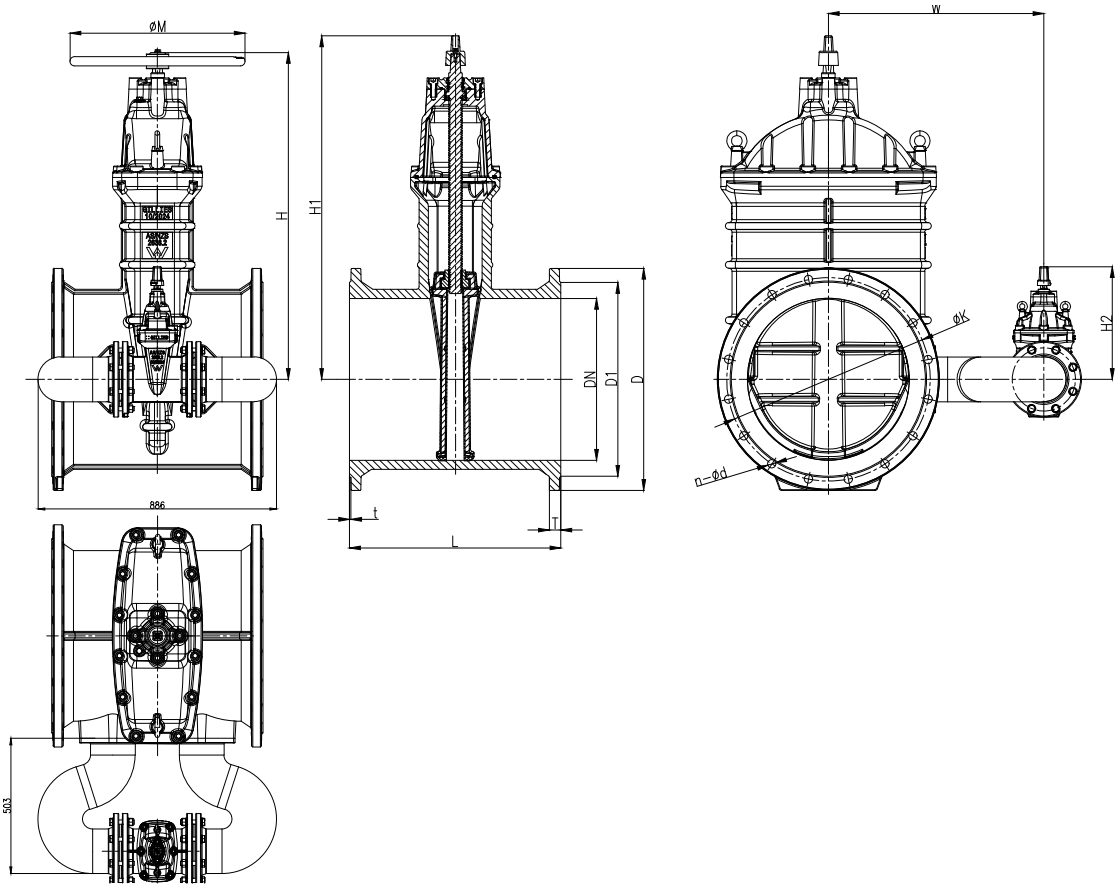


TABLE 1

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

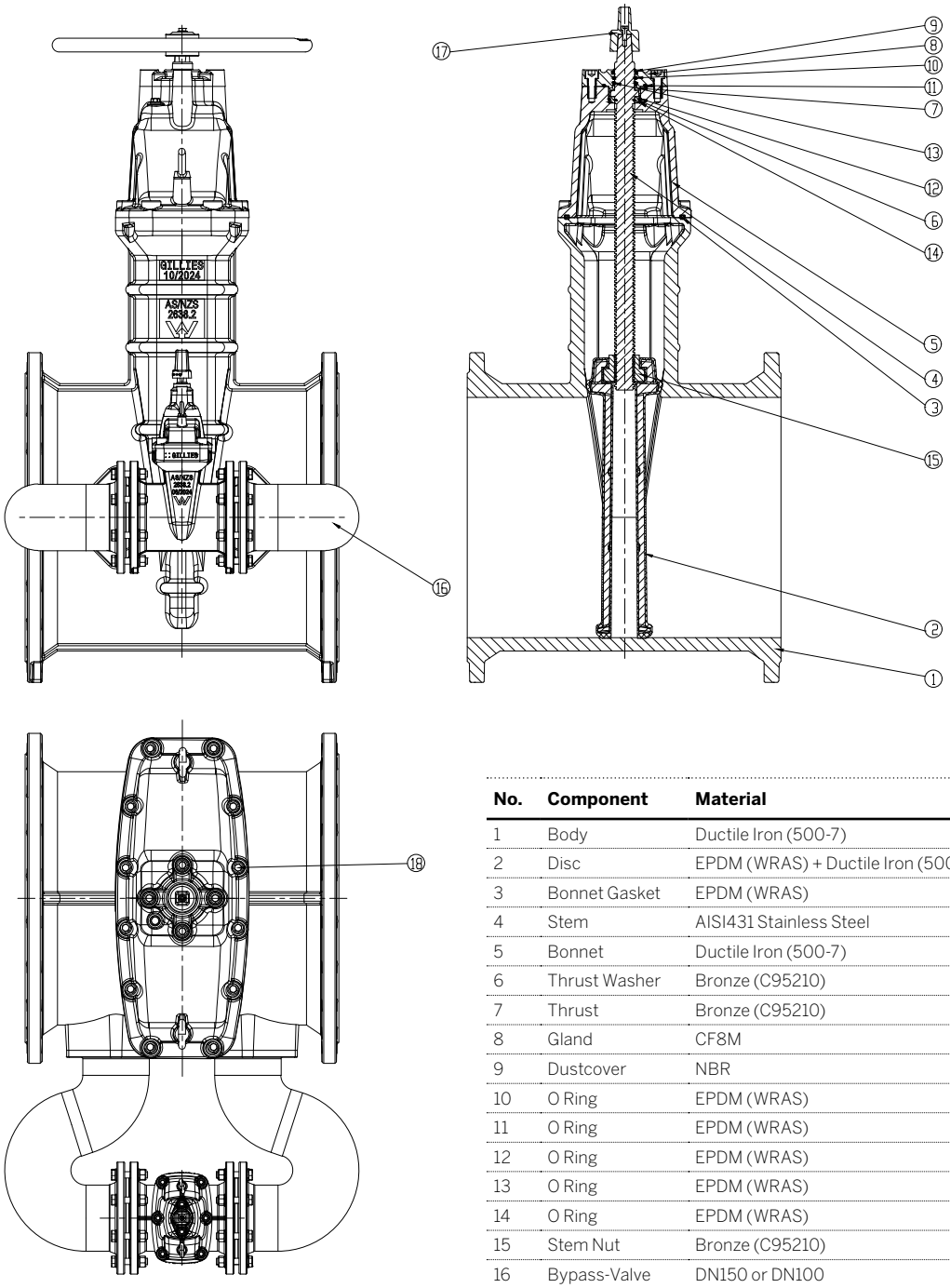
TABLE 2

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



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

Scan for more information

Disclaimer: While every effort has been made to ensure that the information in this document is correct and accurate, users of Hygrade Water Infrastructure 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 Hygrade Water Infrastructure unless expressly stated in any sale and purchase agreement entered into between Hygrade Water Infrastructure and the user.

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