

## AUSLITE® GATE VALVES RESILIENT SEATED - DN 80 TO DN 300

DESIGNED AND MANUFACTURED TO AS 2638.2, AS 1831 & AS 4158



Ductile Iron body and bonnet for high strength and impact resistance

Ductile Iron gate fully encapsulated in EPDM elastomer to ensure drop tight sealing

Grade 431 stainless steel spindle for high strength and corrosion resistance

Seal housing incorporates dual O-ring seals and wiper ring for long life operation

Back seal facility to allow for replacement of seals under full operating pressure

Fusion bonded polymeric coating for long life corrosion protection

Straight through full bore to avoid debris traps

Isolated fasteners for corrosion protection

Anti-friction guide liners for low operating torques

Integral cast-in feet for safe and easy storage

Anticlockwise closing or clockwise closing available

Key or hand wheel operation

### DESCRIPTION

The AUSLITE range of Resilient Seated Gate Valves is designed and manufactured to AS 2638.2, AS 1831 and AS 4158. Super light, easy to lift and with low operating torques, operation is fast and efficient

### GENERAL APPLICATION

AUSLITE Resilient Seated Gate Valves are suitable for use with potable water and wastewater in below or above ground applications. Used for the isolation of sections and branches in pipelines

For non potable media applications such as sewage or salt water use the aggressive media version—AUSLITE SAL Resilient Seated Gate Valve

### TECHNICAL DATA

**Size Range** DN 80 - DN 300

**Allowable Operating Pressures**

DN 80 - DN 300-1600kPa  
DN 80 - DN 150-2500kPa

**Maximum Temperature** 40°C

**End Connections**

Flanged to AS 4087 Fig B5, B6  
TYTON® socket, spigot, shouldered

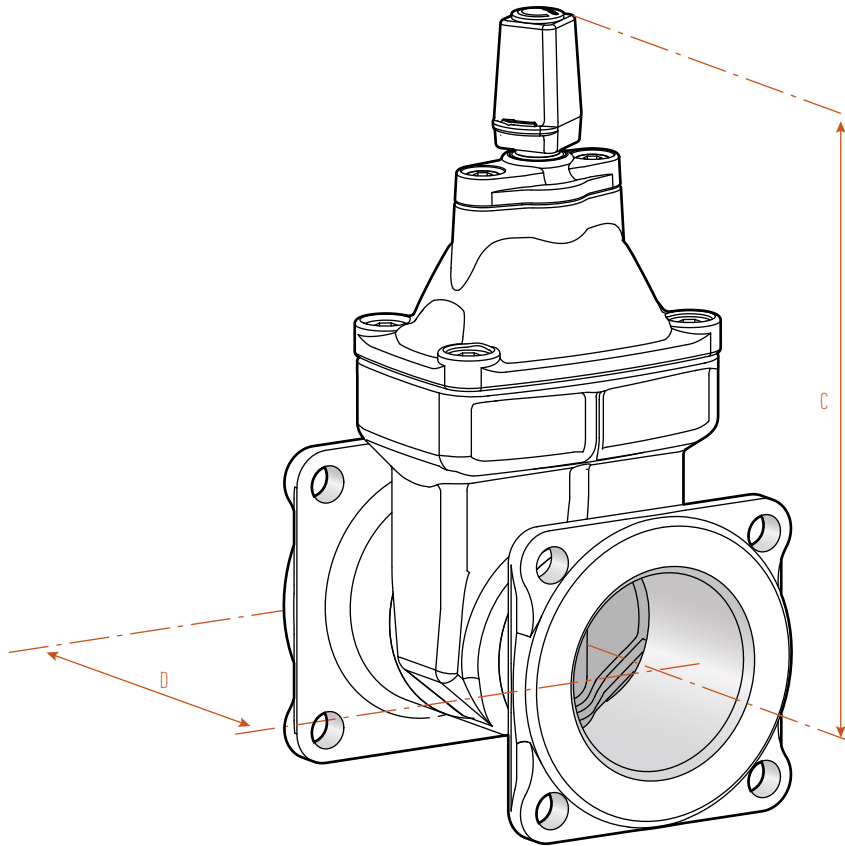
**Certifications**

ISC AS 2638.2  
ProductMark Registration  
No. PRD/R61/0412/2  
Certified to AS 4020 – suitable for contact with drinking water

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### SPECIFICATIONS

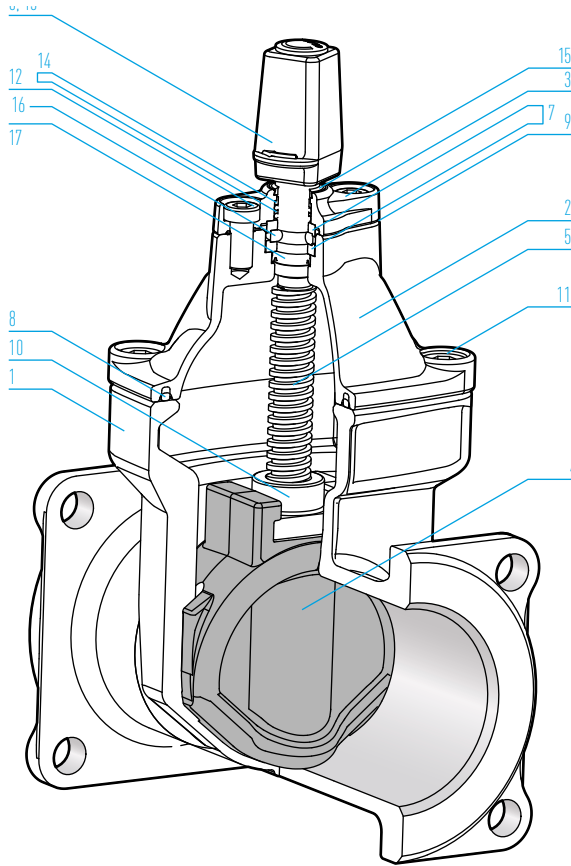
Valve Size–DN		80	100	150	200	225	250	300
Flange face to face dimension - D	mm	203	229	267	292	305	330	356
Socket to socket dimension (effective length) - D	mm	NA	120	130	NA	NA	NA	NA
Flange dimensions* – AS 4087 Fig B5, B6	PN	16 / 35	16 / 35	16 / 35	16	16	16	16
Height – centreline to stem top – centreline to standard cap – C – centreline to hand wheel rim	mm	285	285	375	475	615	615	690
	mm	320	320	405	500	640	640	715
	mm	315	315	410	500	640	640	715
Turns to close (approx)		21	21	31	35	43	43	52
Maximum operating torque – MOT	Nm	75	100	150	200	200	250	300
Actual torque to seal (approx)	Nm	30	30	50	80	120	120	140
Production hydrostatic test – body – seat	kPa	2400 (PN 16) 3750 (PN 25)		2400(PN16) 1760(PN16)		2400(PN16)	2400(PN16)	2400(PN16)
	kPa	1760 (PN 16) 2750 (PN 25)		1760(PN16)		1760(PN16)	1760(PN16)	1760(PN16)
Closing direction (CC) / (ACC)					ACC or CC available			
Mass of stem cap valve (approx)	kg	13	14	27	55	92	93	123

\* PN 35 flange dimensions are used for PN 25 flanges

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### AUSLITE RSGV PARTS LIST

No	Description Material / Standard
1	Body Ductile Iron / Fusion Polymeric Coated AS 1831 400-15 min / AS 4158
2	Bonnet Ductile Iron / Fusion Polymeric Coated AS 1831 400-15 / AS 4158
3	Retaining Plate Stainless Steel / ASTM A276 316 / 431
4	Wedge Ductile Iron (EPDM Encapsulated) / AS 1831 400-15 min
5	Stem Stainless Steel / ASTM A276 431
6	Stem Cap Ductile Iron / AS 1831 400-15 min
7	Backseal / Collar Retainers Copper Alloy – Dezincification Resistant / AS 1567 C48600 min / C69300 min
8	Body Gasket EPDM / AS 1646
9	Top Gasket EPDM / AS 1646
10	Wedge Nut Copper Alloy – Dezincification Resistant / AS 1567 C48600 min
11	Counter Sunk Screw and Isolation Stainless Steel / ASTM A276 316 / Silicon
12	Socket Head Cap Screw and Isolation Stainless Steel / ASTM A276 316 / Silicon
13	Stem Cap Retaining Screw Stainless Steel / ASTM A276 316
14	O-Ring Nitrile Rubber / AS 1646
15	Wiper Ring EPDM / AS 1646
16	Collet Set / Copper Alloy – Dezincification Resistant / AS 1567 C69300 min
17	Backseal Ring Nitrile Rubber / AS 1646 min

### END CONNECTIONS

TYTON® Socket	Flange	Flange	Spigot
DN 100 - DN 150	DN 80 - DN 100	DN 150	DN 80 - DN 150



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### ANCHOR LEGS

DN 80 to DN 150 AUSLITE Valves can be fitted with anchor legs that allow the valve to be secured to a thrust block cast in place under the valve. Simply

- 1 Attach the anchor castings onto the body using the stainless steel fasteners provided
- 2 Excavate an appropriate cross trench thrust block pit, adjusting the width to suit ground conditions
- 3 Install the valve into the pipeline
- 4 Pour concrete thrust block and allow to set

Anchor legs are very easy to attach, simplify formwork and make thrust blocking AUSLITE Valves a breeze



### RECOMMENDED SPECIFICATION

Gate valves shall be resilient seated conforming to AS 2638.2

The allowable operating pressure shall be 1600kPa for DN 80 to DN 300 and 2500kPa for DN 80 to DN 150

Operation shall be by means of a key / handwheel

The direction of closing shall be anticlockwise / clockwise

The valve body and bonnet shall be cast in Ductile Iron and coated with a thermally applied polymeric coating to AS/NZS 4158

The gate shall be cast in Ductile Iron and fully encapsulated in EPDM elastomer – partially coated wedges are not acceptable

The stem shall be Grade 431 Stainless Steel incorporating a failsafe thrust collar

The spindle seal shall be effected by a minimum of two O-rings, which can be replaced under full operating pressure

Fasteners shall be completely isolated from the external environment

Valves shall be manufactured under a product certification scheme and each valve marked in accordance with the certification body's requirements

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