GATE VALVE

RESILIENT SEAT DOUBLE FLANGED PN25

Version 2.0

Clover Resilient Seat Double Flange Gate Valves are suitable for use in pressure and non-pressure water supply and sewerage applications.

SPECIFICATIONS

Diameter Range: DN80 - DN150

Nominal Pressure: 2,500kPa

End Connections: Flange AS/NZS4087 Fig. B6

Maximum Operating Temperature: 40°

Product/Watermark Certification:
Australian Certification Services – 25731

Compliance:
- AS/NZS2638.2 "Gate valves for waterworks purposes - Resilient seated"
- AS/NZS4158 "Thermal-bonded polymeric coatings on valves and fittings for water industry purposes"
- AS1646 "Elastomeric seals for waterworks purposes"
- AS1831 "Ductile cast iron"
- AS/NZS4087 "Metallic flanges for waterworks purposes"
- AS2129 "Flanges for pipes, valves and fittings"
- AS/NZS4020 "Testing of products for use in contact with drinking water"
- ISO5211 "Industrial Valves - Part-turn actuator attachments"

WSAA Product Appraisal: PA1121

WSAA Purchase Specification:
WSA PS260 – Gate Valves, Resilient Seated for Pressure Applications – Water Supply and Sewerage

Options & Accessories:
- Anti-clockwise and clockwise closing models available
- Handwheel
- Gearbox Operator (Spur & Bevel)
- ISO5211 Top Mounting Flange
- Anchor Legs
- Lilac key-cap available for recycled water applications
- Alternate flange drillings available upon request

Recommended Specifications:
- Gate valves shall be Clover resilient seated non-rising spindle type conforming to AS/NZ52638.2
- Gate valves shall close in an anti-clockwise / clockwise direction
- Gate valves shall be fitted with a keycap / handwheel
- Gate valve allowable operating pressure shall be 2,500kPa
- Protective coatings of gate valves shall be thermally applied polymeric type in accordance with AS/NZS4158
- Flanges shall be raised face type in accordance with AS/NZS4087 Fig. B6

FEATURES

- 10 year manufacturers warranty
- Reduced weight for safe and easy handling
- Low operating torque for fast and efficient operation
- Full bore design eliminates debris build up
- Key cap or handwheel operable
- High strength and impact resistant ductile iton body
- Thermally bonded polymeric coating for long life corosion protection
- Intergrated cast-in foot design provides stability
- Isolated 316SS stainless steel fasteners encapsulated with hot-melt coating for long-life corrosion protection
- Ducitile iron wedge encapsulated with vulcanised EPDM elastomer and integrated guide rails
- Forged stainless steel stem with wedge stop and rolled threads for high strength
- Suitable for installation in either horizontal or vertical position

APPLICATIONS

- Used to isolate flow within pipeline sections, pipeline equipment and offtakes
- Gate valves should not be used for the purposes of throttling or adjusting flow
- Potable and recycled water supply
- Irrigation and raw water
- Gravity and sewer rising mains
- Fire systems
- Stormwater and drainage
- Pressure and non-pressure
- Buried and above ground

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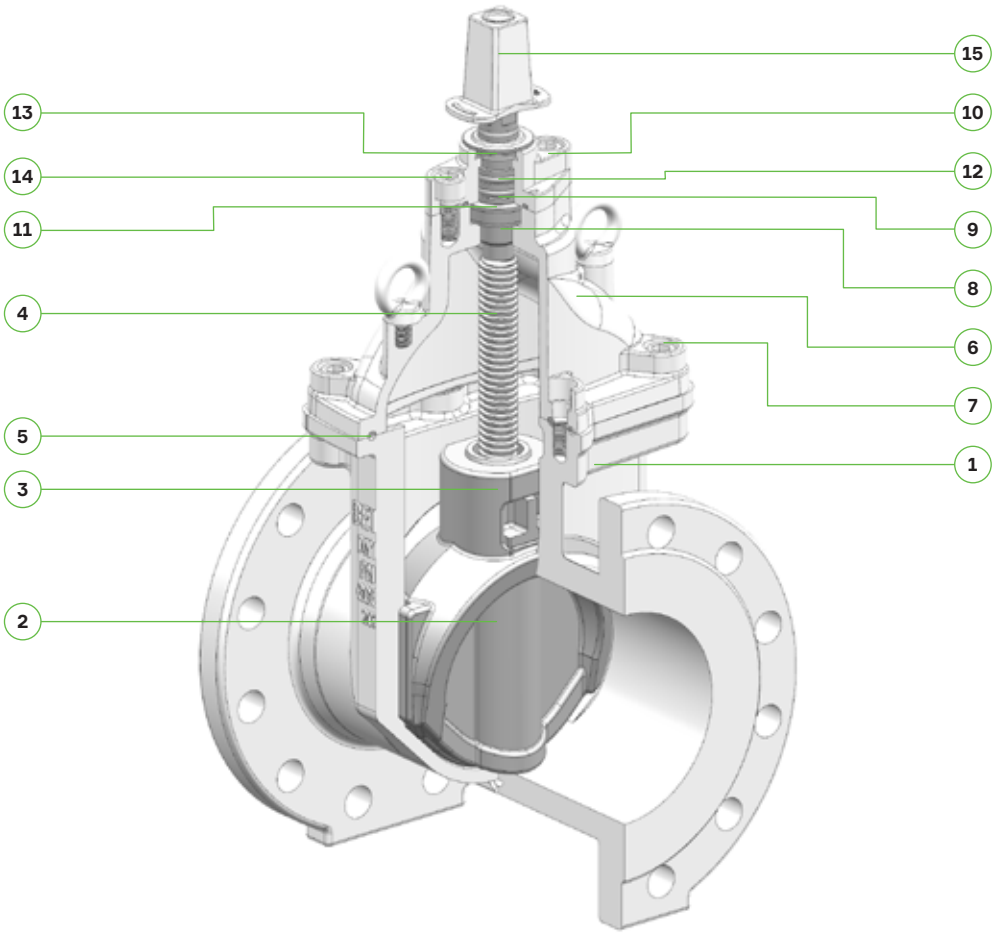

COMPONENTS

ITEM	PART NAME	MATERIAL	STANDARD/GRADE
1	**Body**	Ductile Iron/Polymeric Coating	AS1831 500-7/AS4158
2	**Wedge**	Ductile Iron (EPDM Encapsulated)	AS1831 500-7/AS1646 EPDM
3	**Stem Nut**	Copper Alloy (Aluminium Bronze)	AS1565 C95210
4	**Spindle**	Stainless Steel 431	ASTM A276/431
5	**Body Gasket**	EPDM Elastomer	AS1646/EPDM
6	**Bonnet**	Ductile Iron/Polymeric Coating	AS1831 500-7/AS4158
7	**Body Bolt**	Stainless Steel 316	ASTM A276/316
8	**Thrust Washer**	POM	
9	**Thrust Collar**	DN50-300 POM. DN375+ (Dezincification Resistant)	AS1568 C48600
10	**Bonnet Bolt**	Stainless Steel 316	ASTM A276/316
11	**O'Ring**	NBR Elastomer	AS1646/NBR
12	**Seal Kit**	NBR Elastomer	AS1646/NBR
13	**Dust Cover**	EPDM Elastomer	AS1646/EPDM
14	**Seal Retainer Housing**	Stainless Steel 316	ASTM A276/316
15	**Spindle Key Cap**	Ductile Iron	AS1831 500-7

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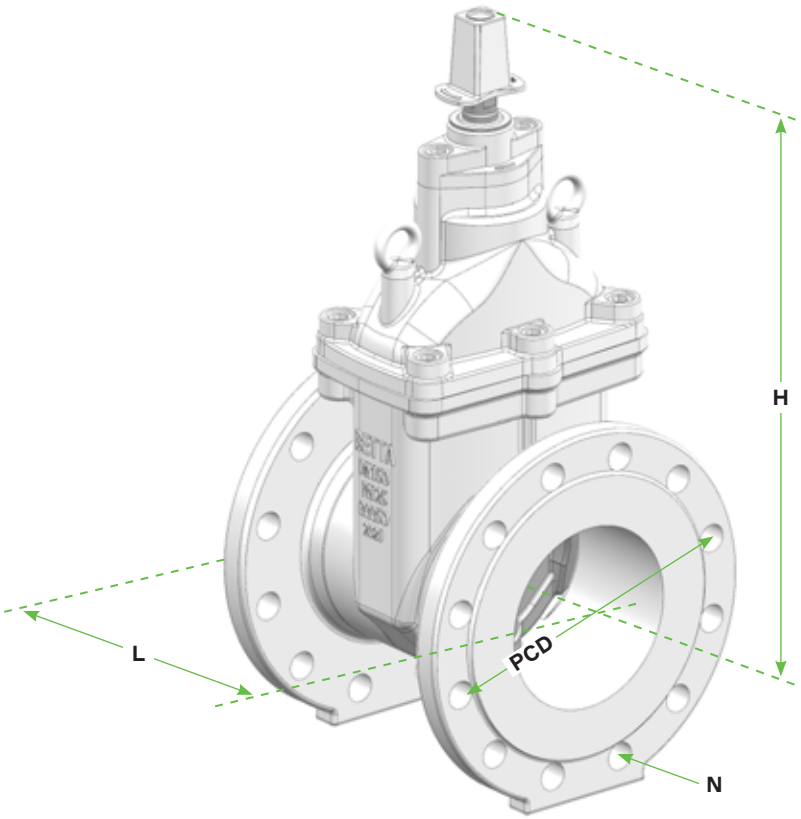
SPECIFICATIONS	SYM	UNITS	DN80	DN100	DN150
LENGTH (FACE TO FACE)	L	mm	203	229	267
HEIGHT (CENTRE TO KEYCAP)	H	mm	310	340	450
FLANGE BOLT HOLES	N	mm	8-Ø18	8-Ø18	12-Ø22
PITCH CIRCLE DIAMETER	PCD	mm	165	191	260
WEIGHT OF UNIT (KEYCAP FITTED)		kg	23	30	52
TURNS TO CLOSE (APPROX)		Turns	21	21	32
ACTUAL TORQUE TO SEAL (APPROX)		Nm	55	60	110
MAXIMUM OPERATING TORQUE	MOT	Nm	75	100	150
ISO5211 TOP MOUNTING FLANGE			F10	F10	F10
PRODUCT CODE (ANTI-CLOCKWISE CLOSE)			VGFF080F25	VGFF100F25	VGFF150F25
PRODUCT CODE (CLOCKWISE CLOSE)			VGFF080F25C	VGFF100F25C	VGFF150F25C

PRESSURE	SYM	UNITS	
PRESSURE NOMINAL	PN	Nom	25
ALLOWABLE OPERATING PRESSURE	AOP	kPa	2,500
MAXIMUM ALLOWABLE OPERATING PRESSURE	MAOP	kPa	3,000
ALLOWABLE SITE TEST PRESSURE	ASTP	kPa	3,125
PRODUCTION TEST - BODY		kPa	3,750
PRODUCTION TEST – SEAT		kPa	2,750

All dimensions are in millimetres.



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