sureflow®

SUREFLOW® GATE VALVES
RESILIENT SEATED - FIGURE 500

FIGURE 500 RESILIENT SEATED GATE VALVES ARE DESIGNED AND MANUFACTURED TO AS 2638.2

- Ductile Iron body and bonnet for high strength and impact resistance
- Ductile Iron gate fully encapsulated in EPDM rubber to ensure drop tight sealing
- Grade 431 Stainless Steel spindle for high strength and corrosion resistance
- Gunmetal dezincification resistant top casting incorporating dual O-ring seals and wiper ring for long life operation
- Back seal facility to allow for replacement of seals under full operating pressure
- Thermally bonded polymeric coating for long life corrosion protection
- Straight through full bore to avoid debris traps
- Isolated fasteners for corrosion protection
- Anti-friction thrust washer for low operating torques
- Integral cast in feet for safe and easy storage
- Integral lifting lugs for installation convenience
- Anticlockwise closing or clockwise closing available
- Key, hand wheel or gearbox operation available.

DESCRIPTION

The SUREFLOW range of Figure 500 Resilient Seated Gate Valves are designed and manufactured to AS 2638.2 for the isolation of water and waste water in pipeline

GENERAL APPLICATION

SUREFLOW Figure 500 Resilient Seated Gate Valves are suitable for use with drinking water and waste water, in below or above ground applications.

Used for the isolation of sections and branches in pipelines.

TECHNICAL DATA

Size Range: DN 80 to DN 600

Allowable Operating Pressures:
1600kPa or
2500kPa (DN 100 & DN 150 only)

Maximum Temperature: 40˚C

End Connections:
Flanged to AS 4087 Fig B5 or B6,
TYTON® socket
Spigot to AS/NZS 2280
Flange / TYTON socket

Certifications:
ISC AS 2638 Certified Product
Licence No. PRD/R61/0412/2
Certified to AS 4020 – suitable for contact with drinking water.

DISTRIBUTED BY
ASMUSS WATER SYSTEMS

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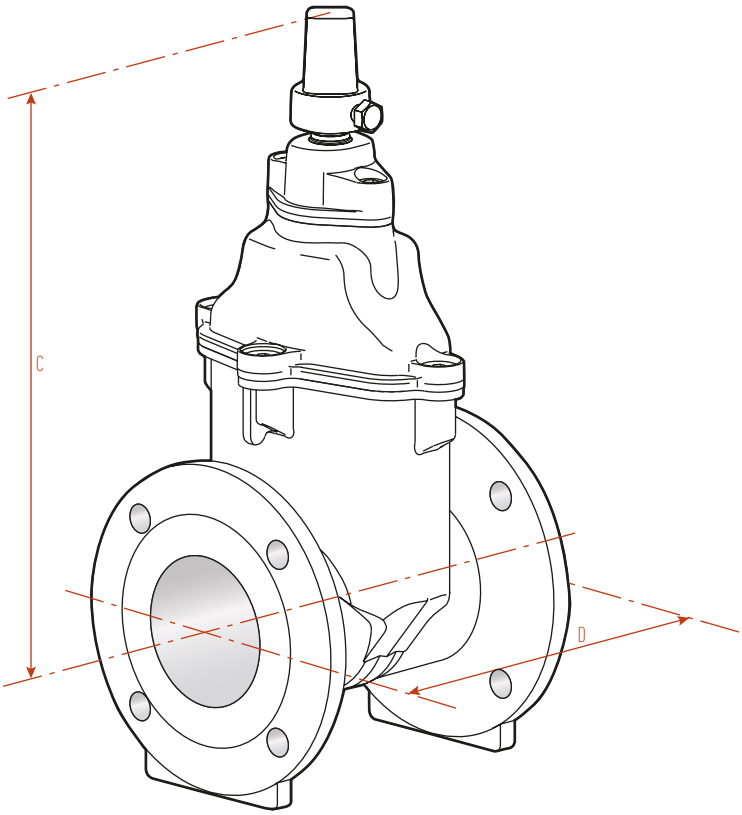

SPECIFICATIONS

Valve size		PN 16			PN 25	Turns to close	Approx mass
		TYTON socket	Flange AS 4087 Fig B5	Spigot	Flange AS 4087 Fig B6		
	C	D	D	D	D		kg
80*	367	–	203	305	–	20	18
100†	402	150	229	365	229	23	24
150†	502	170	267	380	267	26	43
200†	610	195	292	410	–	34	75
225†	649	205	305	420	–	38	85
250†	723	235	330	435	–	42	110
300	810	245	356	450	–	50	160
375	960	275	381	–	–	62	340
450	1145	–	432	–	–	76	560
500	1290	–	457	–	–	82	710
600	1467	–	508	–	–	98	940

* Flange to Polydex socket available. † Flange to TYTON socket available.
Note. For compatability with Series 1 PVC (white) pipe, PLASTYT gaskets may be used in TYTON sockets.

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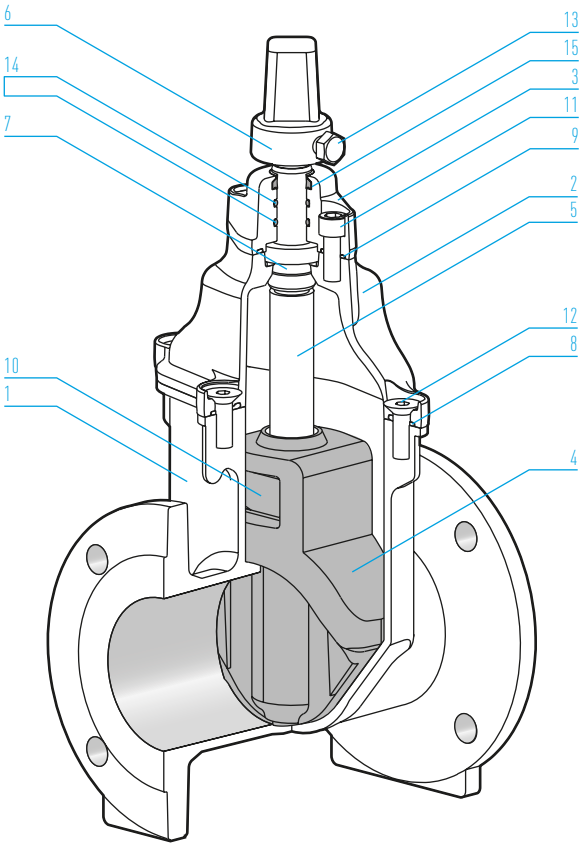
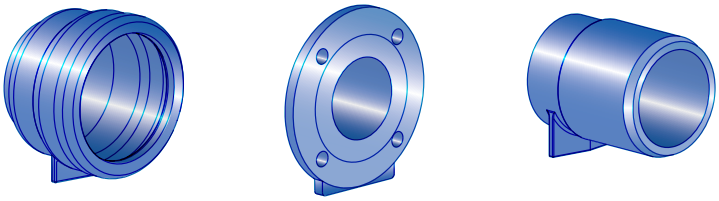


END CONNECTIONS

TYTON® Socket	Flange	Spigot
DN 100 – DN 375	DN 80 – DN 600	DN 80 – DN 300



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	Seal Retainer Gunmetal / AS 1565 C83600
4	Gate Ductile Iron (EPDM Encapsulated) AS 1831 400-15
5	Spindle Stainless Steel / ASTM A276 431
6	Spindle Cap Ductile Iron / AS 1831 400-15
7	Thrust Washer Acetal
8	Body Gasket EPDM / AS 1646
9	Bonnet Gasket EPDM / AS 1646
10	Gate Nut Gunmetal / AS 1565 C83600
11	Socket Head Screws Stainless Steel / ASTM A276 316
12	Sealed Countersunk Screws Stainless Steel / ASTM A276 316
13	Hex Head Screw Stainless Steel / ASTM A276 316
14	O-Rings Nitrile Rubber / AS 1646
15	Wiper Ring Nitrile Rubber / AS 1646

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INSIDE SCREW - AVAILABLE RANGE

Valve size	PN 16				PN 25
DN	FL-FL	SC-SC	SP-SP	FL-SC	FL-FL
80	✓		✓	✓	
100	✓	✓	✓	✓	✓
150	✓	✓	✓	✓	✓
200	✓	✓	✓	✓	
225	✓	✓	✓	✓	
250	✓	✓	✓	✓	
300	✓	✓	✓	✓	
375	✓	✓			
450	✓				
500	✓				
600	✓				
Coating					
Polymeric coating	✓	✓	✓	✓	✓
Options					
Anticlockwise closing	✓	✓	✓	✓	✓
Clockwise closing	✓	✓	✓	✓	✓
Gear actuator	✓				✓
Flange drilling – Fig B5 (TC)	✓			✓	
Flange drilling – Fig B6 (HP)					✓

RECOMMENDED SPECIFICATION

Gate valves shall be resilient seated conforming to AS2638.2

The allowable operating pressure shall be 1600/2500 kPa

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 rubber – partially coated wedges are not acceptable

The spindle shall be Grade 431 stainless steel incorporating a failsafe thrust collar

The spindle seal retainer shall be manufactured from a dezincification resistant copper alloy to AS1565

The spindle seal shall be affected 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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