SUREFLOW GATE VALVES
RESILIENT SEATED - 500H & 500R

DESIGNED AND MANUFACTURED TO AS 2638.2 FOR ABOVE GROUND USE

Figure 500H - non-rising spindle
Figure 500R - rising spindle (OS&Y)

- 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 (500H only)
- Thermally bonded polymeric coating for long life corrosion protection to AS/NZS 4158
- 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
- Hand wheel operation

DESCRIPTION

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

GENERAL APPLICATION

Figure 500H & 500R Resilient Seated Gate Valves are suitable for use with water or waste water, in above ground applications

Rising spindle gate valves are commonly used in fire service applications where a positive indication of open or closed position is necessary

TECHNICAL DATA

Size Range: DN 80 to DN 300

Allowable Operating Pressures: 1600kPa

Maximum Temperature: 40°C

End Connections:
Flanged to AS 2129 TE or
AS 4087 Fig B5 (TC compatible)

Certifications:
ISC AS 2638 Certified Product
Licence No. PRD/R61/0412/2

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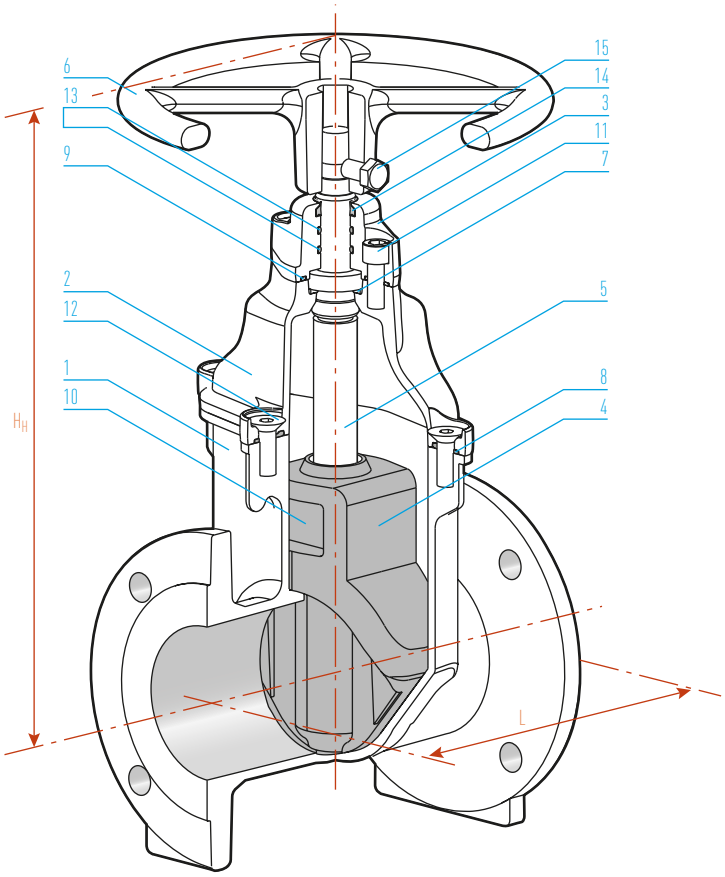

FIGURE 500H PARTS LIST

No	Description Material / Standard
1	Body / Ductile Iron / AS 1831 400-15 min Fusion Polymeric Coated
2	Bonnet / Ductile Iron / AS 1831 400-15 min Fusion Polymeric Coated
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	Handwheel Ductile Iron / AS 1831 400-15
7	Thrust Washer Acetyl
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	O-Rings Nitrile Rubber / AS 1646
14	Wiper Ring Nitrile Rubber / AS 1646
15	Hex Head Screw Stainless Steel / ASTM A276 316

FIGURE 500H DIMENSIONS

Valve Size	DN	80	100	150	200	250	300
Height – H_H	mm	367	402	502	610	723	810
Length – L	mm	203	229	267	292	330	356

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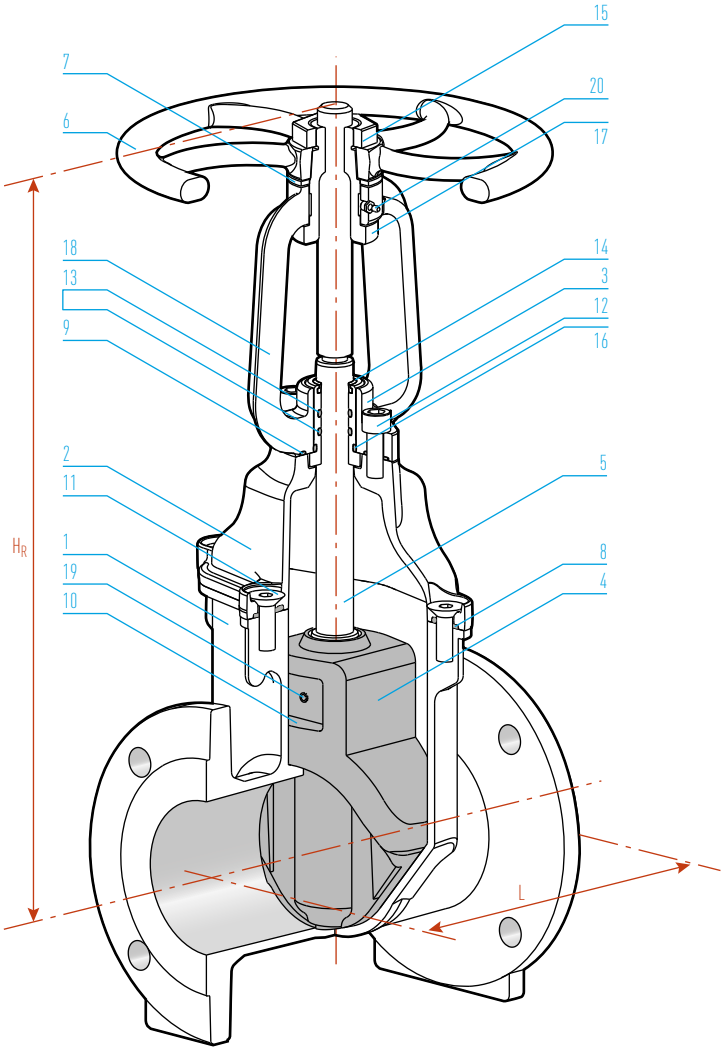

FIGURE 500R DIMENSIONS

Valve Size	DN	80	100	150	200	250	300
Height - HR - Open	mm	512	590	788	930	1200	1390
- Closed	mm	425	483	630	722	940	1080
Length – L	mm	203	229	267	292	330	356

FIGURE 500R PARTS LIST

No	Description Material / Standard
1	Body / Ductile Iron / AS 1831 400-15 min Fusion Polymeric Coated
2	Bonnet / Ductile Iron / AS 1831 400-15 min Fusion Polymeric Coated
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	Handwheel Ductile Iron / AS 1831 400-15
7	Thrust Washer Gunmetal / AS1565 C83600
8	Body Gasket EPDM / AS 1646
9	Yoke Gasket EPDM / AS 1646
10	Gate Nut Gunmetal / AS 1565 C83600
11	Sealed Countersunk Screws Stainless Steel / ASTM A276 316
12	Socket Head Cap Screw Stainless Steel / ASTM A276 316
13	O-Rings Nitrile Rubber / AS 1646
14	Wiper Ring Nitrile Rubber / AS 1646
15	Locknut DZR Brass / AS 1567 352 or 486
16	O-Ring Nitrile Rubber / AS 1646
17	Drive Nut, Handwheel Gunmetal / AS 1565 C83600
18	Yoke Ductile Iron / AS 1831 400-15
19	Roll Pin Stainless Steel / ASTM A276 316
20	Grease Nipple Zinc Plated Mild Steel

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RECOMMENDED SPECIFICATION

Gate valves shall be resilient seated conforming to AS 2638.2

The allowable operating pressure shall be 1600kPa

Operation shall be by means of a key/ handwheel

The direction of closing shall be:
– Fig 500H : anticlockwise/clockwise
– Fig 500R : 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

Fig 500H only. 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 AS 1565

Fig 500H only. The spindle seal shall be affected by a minimum of two O-rings, which can be replaced under full operating pressure

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

VIADUX WATER NETWORK SYSTEMS

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