

SUREFLOW® GATE VALVES

METAL SEATED - 600 & 601

FIGURE 600 AND 601 MS GATE VALVES ARE DESIGNED AND MANUFACTURED TO AS 2638.1 FOR ABOVE GROUND USE

Figure 600 - non-rising spindle
Figure 601 - rising spindle (OS&Y)



Ductile Iron body and bonnet for high strength and impact resistance

Solid gunmetal gate for DN 80 – DN 200, ductile iron fusion coated wedge with gunmetal rings for larger sizes

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

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 600 & 601 Metal Seated Gate Valves are designed and manufactured to AS 2638.1 for the isolation of water and waste water in pipelines

GENERAL APPLICATION

SUREFLOW Figure 600 and 601 Metal 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

 WaterMark Level 1
AS 2638.1/AS 2638.2

ISC-WM-030028-I01-R00



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METAL SEATED - 600

FIGURE 600 METAL SEATED GATE VALVES ARE DESIGNED AND MANUFACTURED TO AS 2638.1 FOR ABOVE GROUND USE

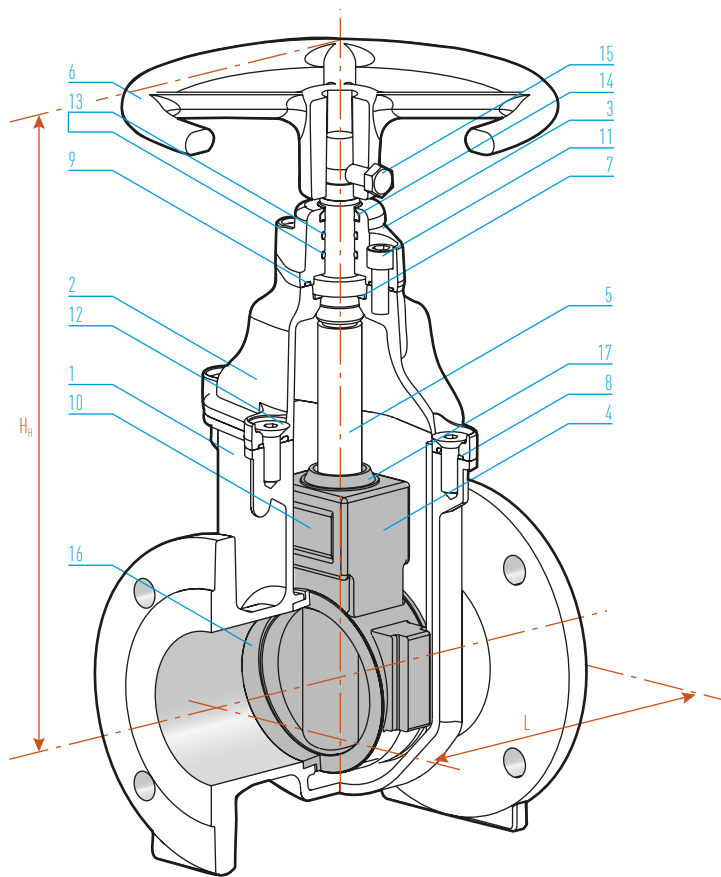


FIGURE 600 PARTS LIST

| 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 DN 80 – DN 200 Gunmetal / AS 1565 C83600 DN 250 – DN 300 Ductile Iron / 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 |
| 16 | Seat Rings Gunmetal / AS 1565 C83600 |
| 17 | Backseal Grommet Nitrile Rubber / AS1646 |

FIGURE 600 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 |

SUREFLOW® GATE VALVES

METAL SEATED - 601

FIGURE 601 METAL SEATED GATE VALVES ARE DESIGNED AND MANUFACTURED TO AS 2638.1 FOR ABOVE GROUND USE

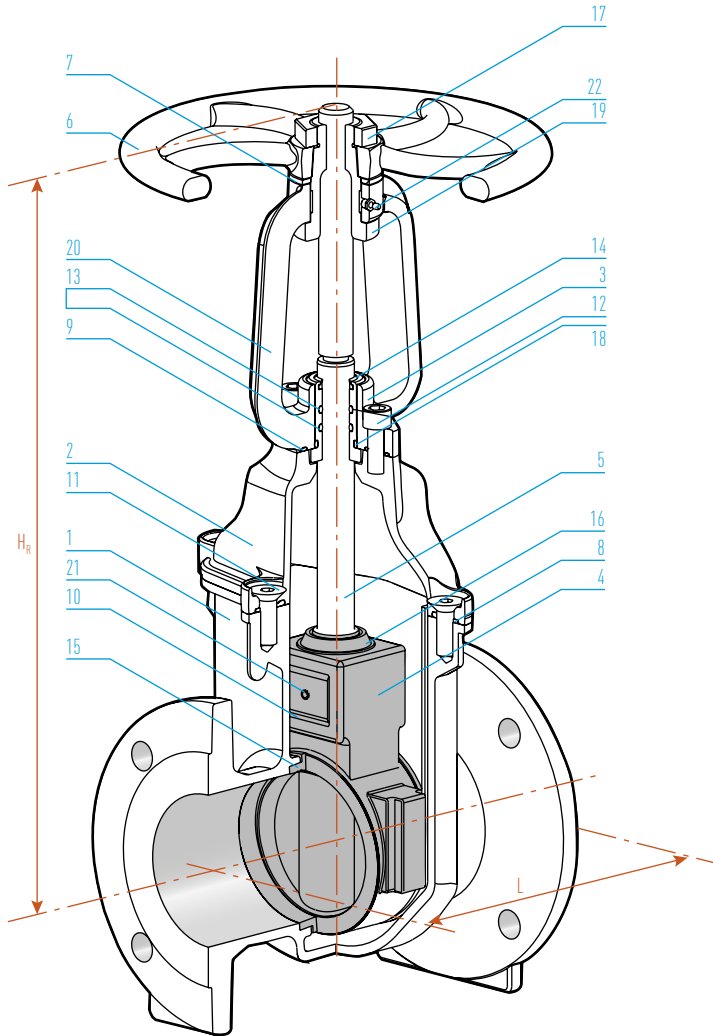


FIGURE 601 DIMENSIONS

| Valve size | DN | 80 | 100 | 150 | 200 | 250 | 300 | |
|-------------------------|----------|-----|-----|-----|-----|-----|------|------|
| Height - H _R | - 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 601 PARTS LIST

| No | Description Material / Standard |
|----|---|
| 1 | Body / Ductile Iron Fusion Polymeric Coated / AS 1831 400-15 min |
| 2 | Bonnet / Ductile Iron Fusion Polymeric Coated / AS 1831 400-15 |
| 3 | Seal Retainer Gunmetal / AS 1565 C83600 |
| 4 | Gate DN 80 – DN 200 Gunmetal / AS 1565 C83600 DN 250 – DN 300 Ductile Iron / AS 1831 400-15 |
| 5 | Spindle Stainless Steel / ASTM A276 431 |
| 6 | Handwheel Ductile Iron / AS 1831 400-15 |
| 7 | Thrust Washer Gunmetal / AS 1565 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 | Seat Rings Gunmetal / AS 1565 C83600 |
| 16 | Backseal Grommet Nitrile Rubber / AS1646 |
| 17 | Locknut DZR Brass / AS 1567 352 or 486 |
| 18 | O-Ring Nitrile Rubber / AS 1646 |
| 19 | Drive Nut, Handwheel Gunmetal / AS 1565 C83600 |
| 20 | Yoke Ductile Iron / AS 1831 400-15 |
| 21 | Roll Pin Stainless Steel / ASTM A276 316 |
| 22 | Grease Nipple Zinc Plated Mild Steel Fusion Coating Polymeric / AS/NZS 4158 |

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FIGURE 600 AND 601 MS GATE VALVES ARE DESIGNED AND MANUFACTURED TO AS 2638.1 FOR ABOVE GROUND USE

RECOMMENDED SPECIFICATION

Gate valves shall be metal seated conforming to AS2638.1

The allowable operating pressure shall be 1600/3500 kPa

Operation shall be by means of a key/handwheel

The direction of closing shall be:
– Fig 600 : anticlockwise/clockwise
– Fig 601 : 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 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
– Fig 600 only

The spindle seal shall be affected by a minimum of two O-rings, which can be replaced under full operating pressure
– Fig 600 only

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

VIADUX PTY LTD PO BOX 141 FAIRFIELD, NEW SOUTH WALES 1860 AUSTRALIA / VIADUX.COM.AU / PHONE 1300VIADUX

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