

Isolating

Resilient

Seated Gate Valve

For System & Network Isolation

TYPES
31, 32 & 33



PIONEERS IN PIPE SOLUTIONS

CRANE

BUILDING SERVICES & UTILITIES



Overview

Suitable for Water, Neutral Liquids & Sewage

The Viking Johnson Resilient Seated Gate Valve is fully compliant to BS EN 1074-2 and includes WRAS approved materials which also meets the requirements of AWWA & NSF 61.

Its lightweight design construction of ductile iron offers a robust and durable extended life performance.

The valve is suitable for use in a wide range of applications including potable water, neutral liquids, irrigation, heating and chilled water, fire systems etc, in either above ground or buried service applications and requires minimal maintenance.

Viking Johnson Resilient seated gate valves have a rated working pressure of 16 Bar. The valves seal 100% leak tight. The waterway is clear, unobstructed and free from pockets.

Resilient seated gate valves are fusion bonded epoxy coated both on the interior as well as the exterior surfaces of the valve, flange surfaces are also fully epoxy coated.

- Series 31** – Cap Top Operated Gate Valves
- Series 32** – Handwheel Operated Gate Valves
- Series 33** – ISO Mount Gate Valves



Body & Bonnet

Manufactured from Ductile Iron to EN1563 EN-GJS-500-7 offering improved durability. Flanges are available drilled to PN10 or PN16.

Operation

Handwheel – Where valves are installed above ground.

Gearbox & Handwheel – Where high system pressures increase operating forces above the level suitable for direct operation.

Actuation – Electric, hydraulic or pneumatic to suit remote operation.

Cap Top as standard – Dimensions in accordance with BS1074 design standards for operation using a standard waterworks tee-key.

Applications

- Potable water distribution mains
- Effluent systems
- Irrigation
- Fire protection
- Pumping systems
- Industrial water systems
- Cooling water systems
- Air conditioning systems

Coating

WRAS listed fusion bonded epoxy coating, minimum thickness 250 micron. Corrosion resistant construction.

Fasteners

A2 stainless steel sealed body / bonnet bolts for enhanced corrosion resistance.

Wedge

Ductile Iron Wedge totally encapsulated with EPDM WRAS elastomer (Nitrile option available).

Stem

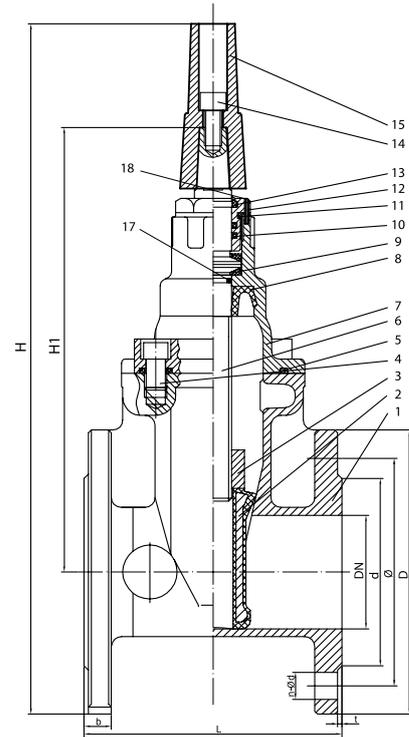
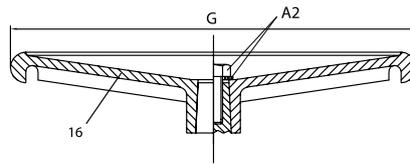
Stem sealing o-rings replaceable under pressure. Stainless steel non rising stem - for improved corrosion resistance.

Ancillaries

- Handwheels
- Gearboxes c/w handwheels
- Powered actuators – Electric, hydraulic, pneumatic
- Valve position indicators
- Extension spindles
- Chain wheels

Resilient Seated Gate Valve - Series 31, 32 & 33

Specifications



| No. | Item | Material | No. | Item | Material |
|-----|---------------|--------------------------------------|-----|------------|-----------------|
| 1 | Body | Ductile Iron | 10 | O-Rings | EPDM |
| 2 | Wedge | EPDM Encapsulated Ductile Iron Wedge | 11 | O-Ring | EPDM |
| 3 | Stem Nut | DZR Brass | 12 | Gland Bush | DZR Brass |
| 4 | Capscrews | Stainless Steel | 13 | Wiper Ring | EPDM |
| 5 | Bonnet Gasket | EPDM | 14 | Cap screw | Stainless Steel |
| 6 | Stem | Stainless Steel | 15 | Stem Cap | Ductile Iron |
| 7 | Bonnet | Ductile Iron | 16 | Handwheel | Ductile Iron |
| 8 | Seal | EPDM | 17 | O-Ring | EPDM |
| 9 | Washer | Nylon | 18 | Pin | Stainless Steel |

Resilient Seated Gate Valve

| DN | L | N - ØD | D | Ø | D | B | T | H max | H1 | G | Wrench (kg) |
|-----|-----|----------|-----|-----|-----|------|-----|-------|-----|------|-------------|
| 50 | 178 | 4 - ø19 | 165 | 125 | 99 | 19 | 178 | 460 | 269 | ø200 | 12 |
| 65 | 190 | 4 - ø19 | 185 | 145 | 118 | 19 | 190 | 485 | 300 | ø200 | 16 |
| 80 | 203 | 8 - ø19 | 200 | 160 | 132 | 19 | 203 | 530 | 336 | ø260 | 20 |
| 100 | 229 | 8 - ø19 | 220 | 180 | 156 | 19 | 229 | 590 | 359 | ø260 | 24 |
| 125 | 254 | 8 - ø19 | 250 | 210 | 184 | 19 | 254 | 640 | 424 | ø315 | 32 |
| 150 | 267 | 8 - ø23 | 285 | 240 | 211 | 19 | 267 | 695 | 441 | ø375 | 41 |
| 200 | 292 | 12 - ø23 | 340 | 295 | 266 | 20 | 292 | 830 | 546 | ø375 | 63 |
| 250 | 330 | 12 - ø23 | 400 | 355 | 319 | 22 | 330 | 940 | 637 | ø400 | 114 |
| 300 | 356 | 12 - ø23 | 455 | 410 | 370 | 24.5 | 356 | 1030 | 719 | ø500 | 168 |

| PN | Non-shock pressure within temperature range | Non-shock pressure at maximum pressure |
|----|---|--|
| 16 | 16 bar from 0°C to 80°C | 16 bar at 80°C |

Materials & Relevant Standards

1. Body

Ductile Iron to EN1563 EN-GJS-500-7

2. Wedge

EPDM Encapsulated Ductile Iron Wedge

3. Stem Nut

DZR Brass to BS EN 12164 CW602N

4/14. Capscrew

Stainless Steel A2

5. Bonnet Gasket

EPDM to BS EN 681

6. Stem

Stainless Steel 304

7. Bonnet

Ductile Iron to EN1563 EN-GJS-500-7

8. Seal

EPDM to BS EN 681

9. Washer

Nylon 1010

10/11/17. O-Rings

EPDM to BS EN 681

12. Gland Bush

DZR Brass to BS EN 12164 CW602N

13. Wiper Ring

EPDM to BS EN 681

15. Stem Cap

Ductile Iron to EN1563 EN-GJS-500-7

16. Handwheel

Ductile Iron to EN1563 EN-GJS-500-7

18. Pin

Stainless Steel 304

Approval/Standards

BS EN 1074 1 & 2

Seat – 1.1 x PN

Body – 1.5 x PN

WRAS Approved Product
– Certificate number 1206082

Size Range DN 50mm - DN 300mm

To EN 1074 parts 1 and 2

Face to Face in accordance with BS5163 and EN 558 series 3

Suitable for buried service

Also suitable for Air conditioning plants,
Compressed Air, Irrigation, Fire Protection
Systems

Every effort has been made to ensure that the information contained in this publication is accurate at the time of publishing. Crane Ltd assumes no responsibility or liability for typographical errors or omissions or for any misinterpretation of the information within the publication and reserves the right to change without notice.



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ISO 14001 • EMS 51874



ISO 9001 • FM 00311



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