

Isolating

Resilient

Seated Gate Valve
For System & Network Isolation



PIONEERS IN PIPE SOLUTIONS

CRANE

BUILDING SERVICES & UTILITIES



Suitable for Water, Neutral Liquids & Sewage

The Viking Johnson Resilient Seated Gate Valve is fully compliant to BS EN 1074-2 and include WRAS approved materials.

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

Series 34 – Handwheel with Valve Position Indication Gate Valves



Resilient Seated Gate Valve - Series 31, 32, 33 & 34

Product Design Benefits

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

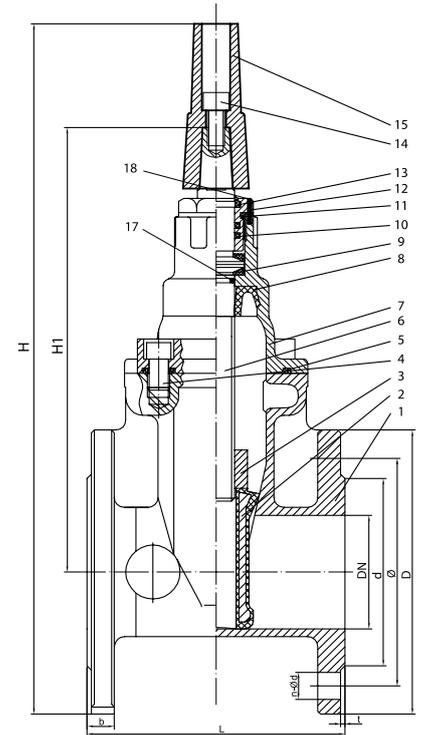
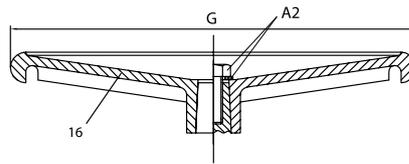
Flow Control

Customer Benefits

- Suitable for use with water, neutral liquids and sewage
- Clockwise closing as standard or anti-clockwise closing where specified
- Handwheel option
- Valve Position Indicator option
- Sea water version
- ISO flanged version for gearbox or actuator mounting
- Gearbox option
- Powered Actuator option
- WRAS approved materials

Resilient Seated Gate Valve - Series 31, 32, 33 & 34 BS5163

Specifications



No.	Item	Material
1	Body	Ductile Iron
2	Wedge	EPDM Encapsulated Ductile Iron Wedge
3	Stem Nut	DZR Brass
4	Capscrews	Stainless Steel
5	Bonnet Gasket	EPDM
6	Stem	Stainless Steel
7	Bonnet	Ductile Iron
8	Seal	EPDM
9	Washer	Nylon

No.	Item	Material
10	O-Rings	EPDM
11	O-Ring	EPDM
12	Gland Bush	DZR Brass
13	Wiper Ring	EPDM
14	Capscrew	Stainless Steel
15	Stem Cap	Ductile Iron
16	Handwheel	Ductile Iron
17	O-Ring	EPDM
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

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



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ISO 14001 • EMS 51874



ISO 9001 • FM 00311



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