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FLOWSERVE

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Equiwedge
MSIV/MFIV

GATE

Reliable, tight shutoff and low-pressure drop operation characterize the Flowserve range of gate valves. Flexible wedge, split wedge, slab gate and double-disk configurations cover a range of requirements to meet any user need, from general service to severe conditions with gross thermal transients or dual-phase fluids. Plant personnel are kept safe through the application of fast-acting valves manufactured to ASME B16.34, ASME Section III and RCC-M design codes.

Gate – Quick Reference

Product	Sub-Type	Sizes	Pressures	Temperatures
Equiwedge™ MSIV/MFIV	Flexible Split Wedge	DN 100 to 1050 NPS 4 to 42	PN 110 to 420 Class 600 to 2500	-29°C to 566°C (-20°F to 1050°F)
Equiwedge	Flexible Split Wedge	DN 65 to 900 NPS 2½ to 36	PN 110 to 610 Class 600 to 3600	-29°C to 650°C (-20°F to 1200°F)
Flex Wedge	Flexible Wedge	DN 65 to 600 NPS 2½ to 24	PN 20 to 260 Class 150 to 1500	-29°C to 566°C (-20°F to 1050°F)
Double Disk	Parallel Slide	DN 15 to 600 NPS ½ to 24	PN 20 to 325 Class 150 to 1888	-29°C to 566°C (-20°F to 1050°F)
Split Wedge	Split Wedge	DN 15 to 50 NPS ½ to 2	PN 20 to 140 Class 150 to 800	-29°C to 566°C (-20°F to 1050°F)
Slab Gate	Slab	DN 50 to 1600 NPS 2 to 64	PN 20 to 420 Class 150 to 2500	-100°C to 400°C (-148°F to 750°F)

GATE

Edward®

FLEXIBLE SPLIT WEDGE

Equiwedge MSIV/MFIV

Compliant with ASME Section III and RCC-M design codes, this valve is the industry standard for fast-acting, reliable isolation of main steam or feedwater lines.

- Plant and personnel safety assured by verifiable gas/hydraulic actuator design, which can close the valve within 3–5 seconds of receipt of signal
- Maximized actuator readiness made possible by self-contained energy storage and critical component redundancies
- Extended service life enabled by simplified modular design with no external hose or piping connections and a 12-year maintenance cycle
- Environmental and functional qualifications per IEEE and ASME QME-1 requirements

SPECIFICATIONS

Sizes: DN 100 to 1050; NPS 4 to 42
Press: PN 110 to 420;
Class 600 to 2500
Temp: -29°C to 566°C
(-20°F to 1050°F)

Refer to literature EVENCT0004 at /library.

Edward

FLEXIBLE SPLIT WEDGE

Equiwedge

A large-bore gate valve with body-guided split wedges, offering superior leak tightness and performance.

- Maximized MTBF and lower total cost of ownership derived from optimized component flexibility that reduces component stress from thermal binding
- Minimized valve leakage enabled by disk guidance and optimized gate design, ensuring tight seating
- Longer component life with cast and forged offerings incorporating the latest in hard-facing welding processes

SPECIFICATIONS

Sizes: DN 65 to 900; NPS 2½ to 36
Press: PN 110 to 610;
Class 600 to 3600
Temp: -29°C to 650°C
(-20°F to 1200°F)

Refer to literature EVENBR1005 at /library.

Anchor/Darling®

FLEXIBLE WEDGE

Flex Wedge

Flexible wedge gate valve with a single-piece optimized gate designed to minimize seat leakage.

- Broad versatility of nuclear applications enabled by a wide range of sizes and pressure classes
- Additional versatility ensured by compatibility with most actuation methods, including handwheel/bevel gear, electric, pneumatic and hydraulic
- Reliable operation under extreme plant scenarios ensured by seismic qualifications

SPECIFICATIONS

Sizes: DN 65 to 600; NPS 2½ to 24
Press: PN 20 to 260; Class 150 to 1500
Temp: -29°C to 566°C
(-20°F to 1050°F)

Refer to literature EVENCT0004 at / library.

PARALLEL SLIDE

Double Disk

Anchor/Darling

Providing tight shutoff under the most severe conditions, this exclusive disk and wedge design resists effects of extreme temperature, gross thermal transients, high and low differential pressures, and dual-phase fluids.

- Improved personnel safety made possible by bonnet design, which allows easy access to valve internals while minimizing radiation exposure
- Reliable closing, smooth operation and long service life enabled by design that minimizes accumulation of sediment and sludge
- Lower maintenance time and costs thanks to simple part design, parts interchangeability and in-line maintenance capability

SPECIFICATIONS

Sizes: DN 15 to 600; NPS ½ to 24
Press: PN 20 to 325; Class 150 to 1888
Temp: -29°C to 566°C
(-20°F to 1050°F)

Refer to literature EVENCT0004 at / library.

SPLIT WEDGE

Split Wedge

Anchor/Darling

Compact gate valve design with body-guided, two-piece gates provides reliable operation and sealing.

- Reliable sealing assured by brazed-in seat
- Economical performance from rugged design that smoothes flow transitions to minimize flow turbulence
- Longer service life from stronger, oversized stem and graphite packing, providing stronger disc-to-stem connection and less wear
- Reduces cost and maintenance with ADVanseal pressure sealing system, which eliminates leakage

SPECIFICATIONS

Sizes: DN 15 to 50; NPS ½ to 2
Press: PN 20 to 140; Class 150 to 800
Temp: -29°C to 566°C
(-20°F to 1050°F)

Refer to literature EVENCT0004 at / library.

SLAB

Slab Gate

Valbart

Cost-competitive, high-performance general service control valve designed for applications demanding higher rangeability, precise control and higher flow capacity.

- Economical performance with the highest rated C_v (up to 70% more than competitors), which sometimes allows for smaller sizes to be used
- Longer service life and more precise control enabled by the robust polygon shaft/plug connection
- Low maintenance costs due to double-offset eccentric plug design that reduces seat wear while providing reliable Class IV (metal seat) and VI (soft seat) shutoff
- Improved safety with superior shaft blow-out protection from the ASME B16.34 shaft design

SPECIFICATIONS

Sizes: DN 25 to 300; NPS 1 to 12
Press: PN 10 to 63; Class 150 to 600
Temp: -100°C to 400°C
(-148°F to 750°F)

Refer to literature VLENBR0064 at /library.

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