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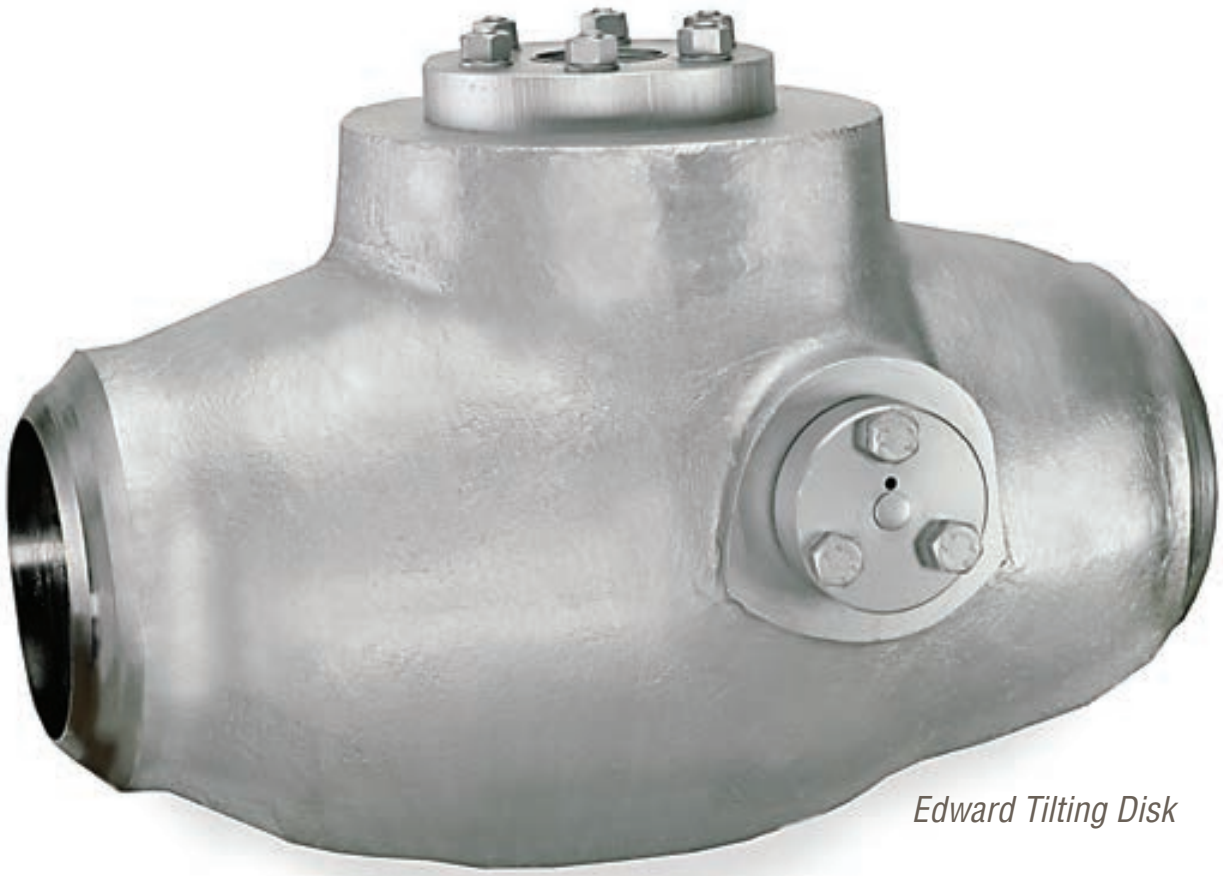

Edward Tilting Disk

CHECK

Leak-free, tight sealing, protection against reverse flow and minimal flow direction changes are at the core of Flowserve check valve designs. A broad range of configurations that includes piston, tilting disc, spring-loaded disc and dual-plate models meets the critical, high-temperature/pressure demands of the world's major industries. Customers can carefully match application requirements through myriad valve body, seat and disc options.

Check – Quick Reference*

Product	Sub-Type	Sizes	Pressures	Temperatures
Flite-Flow	Piston (Lift)	DN 65 to 800 NPS 2½ to 32	PN 50 to 760 Class 300 to 4500	-29°C to 650°C (-20°F to 1200°F)
Univalve	Piston (Lift)	DN 15 to 100 NPS ½ to 4	PN 290, 460 and 760 Class 1690, 2680 and 4500	-29°C to 816°C (-20°F to 1500°F)
Edward Bolted Bonnet	Piston (Lift)	DN 15 to 50 NPS ½ to 2	PN 110 to 260 Class 600 and 1500	-29°C to 538°C (-20°F to 1000°F)
1878 Piston Check	Piston (Lift)	DN 15 to 50 NPS ½ to 2	PN 110, 150, 260 and 325 Class 600, 900, 1500 and 1878	38°C to 371°C (100°F to 700°F)
Anchor/Darling Piston (Lift) Check	Piston (Lift)	DN 65 to 600 NPI 2½ to 24	PN 20 to 260 Class 150 to 1500	-29°C to 565°C (-20°F to 1050°F)
1878 Swing Check	Swing	DN 15 to 50 NPS ½ to 2	PN 110, 150, 260 and 325 Class 600, 900, 1500 and 1878	-29°C to 371°C (-20°F to 700°F)
Anchor/Darling Swing Check	Swing	DN 65 to 600 NPI 2½ to 24	PN 20 to 260 Class 150 to 1500	-29°C to 565°C (-20°F to 1050°F)

** Additional products shown on next page*

Check – Quick Reference, cont'd.

Product	Sub-Type	Sizes	Pressures	Temperatures
Edward Tilting Disk	Tilting Disk	DN 65 to 600 NPS 2½ to 24	PN 110 to 760 Class 600 to 4500	-29°C to 650°C (-20°F to 1200°F)
Anchor/Darling Tilting Disk	Tilting Disk	DN 65 to 600 NPS 2½ to 24	PN 20 to 260 Class 150 to 1500	-29°C to 565°C (-20°F to 1050°F)
NAF Check	Tilting Disk	DN 40 to 1000 NPS 1½ to 24	PN 20 to 40 Class 150 to 300	-30°C to 350°C (-22°F to 662°F)

PISTON (LIFT)

Flite-Flow

Rugged, large bore, cast body, piston check valve designed to operate in critical high-pressure and high-temperature environments.

Edward

- Increased uptime and longer service life due to integral Stellite seating surfaces
- Improved reliability and service integrity via body-guided disc design to ensure tight sealing and check valve protection in the event of fluid back flow
- Superior flow performance enabled by streamlined flow shapes that reduce pressure drops and support full lift
- Broad application versatility in high-temperature, high-pressure applications enabled by wide range of pressure and size options

SPECIFICATIONS

Sizes: DN 65 to 800; NPS 2½ to 32
Press: PN 50 to 760; Class 300 to 4500
Temp: -29°C to 650°C
(-20°F to 1200°F)

PISTON (LIFT)

Univalve

Reliable piston check valve designed for high-temperature and high-pressure uses in a variety of environments.

Edward

- Increased uptime from the use of anti-thrust rings in the body-guided disc, which eliminates misalignment and galling
- Greater process control due to integral hard-surfaced seat, which allows positive shutoff and seat life
- Enhanced service integrity through optimum flow shape that minimizes flow direction changes and pressure drops
- Lower operating costs enabled by a die-formed, flexible graphite gasket seated to a prescribed bonnet torque that provides a reliable seal

SPECIFICATIONS

Sizes: DN 15 to 100; NPS ½ to 4
Press: PN 290, 460 and 760;
Class 1690, 2680 and 4500
Temp: -29°C to 816°C
(-20°F to 1500°F)

Refer to literature EVENCT0004 at /library.

PISTON (LIFT)

Edward Bolted Bonnet

Durable, small bore check valve, forged and equipped with a bolted cover design to enable easy maintenance.

Edward

- Increased uptime from the use of anti-thrust rings in the body-guided disc, which eliminates misalignment and galling
- Greater process control due to integral hard-surfaced seat, which allows positive shutoff and extends seat life
- Lower maintenance costs due to bolted bonnet, four-bolt design
- Longer service life from positive metal-to-metal stop design that prevents over-compression of the gasket
- Optimized flow passages minimize flow direction changes and reduce pressure drops

SPECIFICATIONS

Sizes: DN 15 to 50; NPS ½ to 2
Press: PN 110 and 260;
Class 600 and 1500
Temp: -29°C to 538°C
(-20°F to 1000°F)

CHECK

PISTON (LIFT)

1878 Piston Check

Anchor/Darling

High-performance 1878 piston check valve designed for low leakage rate testing (LLRT) and available with EPR/EPDM resilient seated discs.

- Lower operating and inventory costs due to versatility of one valve designed to operate in three pressure classes
- Standards compliance assured by design that meets ASME Section III, Class 1, 2 and 3 design codes
- Improved reliability and service integrity from investment cast body construction that results in contoured, smooth flow path and high C_v
- Improved reliability enabled by lightweight disc and non-cobalt seat ring
- Functional qualifications per pressure class 1878 (intermediate) requirements

SPECIFICATIONS

Sizes: DN 15 to 50; NPS ½ to 2
Press: PN 110, 150, 260 and 325; Class 600, 900, 1500 and 1878
Temp: -29°C to 371°C (-20°F to 700°F)

For more information, refer to EVENCT0004.

PISTON (LIFT)

Anchor/Darling Piston (Lift) Check

Anchor/Darling

Versatile lift check valves designed for low or pulsating flow applications where pressure drop through the valve is not critical.

- Broad application flexibility provided by the variety of available body types
- High performance ensured by cast body with large radius curves designed to optimize internal flow passages and minimize pressure drops
- Improved reliability and service integrity via body-guided disc design to ensure tight sealing and check valve protection in the event of fluid back flow
- Rapid operation made possible by equalizer lines that connect the bonnet area above the disc to the downstream port to improve disc lift and eliminate dash-pot effect

SPECIFICATIONS

Sizes: DN 65 to 600; NPI 2½ to 24
Press: PN 20 to 260; Class 150 to 1500
Temp: -29°C to 565°C (-20°F to 1050°F)

Refer to literature EVENCT0004 at / library.

Quality Defined by You

Flowserve quality systems are designed to align with the customer definition of quality. We apply process-based, data-centric methods to every level of our supply chain to ensure reliable quality and timely fulfillment of order requirements. We call this our Results-driven Initiative on Safety and Quality (RISQ), and it comprises more than 3200 employees worldwide, each committed to providing the quality products and services your operations demand.

SWING

1878 Swing Check

Rugged, specialized swing check valve optimally designed for use in reactor penetration and isolation applications.

Anchor/Darling

- Rapid disassembly/reassembly during maintenance and repair that minimizes exposure to radiation
- Environmental/regulatory compliance and improved plant safety due to ALARA-compliant design
- Functional qualifications per ratings in accordance with ASME Section III, Class 1 pressure class 1878 (intermediate) requirements
- Greater process control through available dual-seat disc design for leak-free sealing at both high- and low-pressure differentials

SPECIFICATIONS

Sizes: DN 15 to 50; NPS ½ to 2
Press: PN 110, 150, 260 and 325; Class 600, 900, 1500 and 1878 Temp: -29°C to 371°C (-20°F to 700°F)

Refer to literature EVENCT0004 at / library.

SWING

Anchor/Darling Swing Check Valve

All-purpose swing check valve provides economical reverse-flow protection for piping system applications where flow is relatively constant.

Anchor/Darling

- Broad application and installation versatility via option to install in horizontal or vertical lines (with flow up)
- Low initial cost and low ongoing costs due to ease of maintenance
- Functional qualifications per ratings in accordance with ASME Section III
- Greater process control through available dual-seat disc design for leak-free sealing at both high- and low-pressure differentials
- Reliable performance enabled by design that ensures tight sealing

SPECIFICATIONS

Sizes: DN 65 to 600; NPI 2½ to 24
Press: PN 20 to 260; Class 150 to 1500
Temp: -29°C to 565°C (-20°F to 1050°F)

Refer to literature EVENCT0004 at / library.

TILTING DISK

Edward Tilting Disk

Designed to close as quickly as possible, this large-bore valve minimizes loud, damaging slamming and vibration noises caused by high-velocity reverse flow in high-pressure and high-temperature applications.

Edward

- Greater process control assured by precision-machined cover and integral hard-surfaced seats
- Fast shutoff response facilitated by counterweighted dome-shaped disk, low-friction pivots and enclosed torsion springs
- Long, reliable service in high pressures and temperatures due to preloaded pressure-energized flexible graphite composite
- Easy installation and alignment made possible by adjustable hinge pin

SPECIFICATIONS

Sizes: DN 65 to 600; NPS 2½ to 24
Press: PN 110 to 760; Class 600 to 4500
Temp: -29°C to 650°C (-20°F to 1200°F)

Refer to literature EVENCT0002 at /library.

CHECK

TILTING DISK

Anchor/Darling Tilting Disk

Designed for applications requiring assured operability and controlled closure, the Anchor/Darling Tilting Disk check valve also maintains the disc open in the best position to minimize pressure drop.

Anchor/Darling

- High-efficiency performance from differential seat angles, ensuring better seal with low seating force, plus hydrofoil profile for extra stability
- Longer service life enabled by valve design, which causes disc stops to impact body away from sealing surfaces
- Reduced downtime via easily replaceable seal-welded seat rings that minimize distortion from body stress

SPECIFICATIONS

Sizes: DN 65 to 600; NPS 2½ to 24
Press: PN 20 to 260; Class 150 to 1500
Temp: -29°C to 565°C
(-20°F to 1050°F)

Refer to literature EVENCT0004 at / library.

TILTING DISK

NAF Check

A cost-effective compact tilting disc check valve. Unique design gives excellent tightness and minimizes water-hammering.

NAF

- Low total cost of ownership provided by compact face-to-face dimension — invaluable where space is limited
- Reduced handling costs and easier installation thanks to low weight
- Reliability and regulatory compliance assured by tightness that exceeds API 598 standards
- Longer service life with optional spring, which reduces risk of damage from water-hammer effect in liquid media

SPECIFICATIONS

Sizes: DN 40 to 1000; NPS 1½ to 24
Press: PN 20 to 40; Class 150 to 300
Temp: -30°C to 350°C (-22°F to 662°F)

Refer to literature Fk 30.70 and Fk 30.71 at /library.

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