Triple Eccentric Metal Seated Valves

Customers worldwide specify our MV Series valves in their applications because of their unique combination of control, reliability and compactness. This makes them fit for purpose in critical high pressure, tight shut-off, high temperature or cryogenic, throttling and isolation duties.

**Key features**

- Resilient metal-to-metal seal
- Full metal construction
- Zero leakage bi-directional tight shut-off
- Quarter turn friction-free operation
- Fire-safe and fire-tested
- Integral external position indicator on valve shaft and body
- Wide range of materials and sizes
- Triple eccentric design
- External anti-blowout device
- Unique triple eccentric metal seat design
  - Prevents wear
  - Zero leakage
  - Longer service life
  - Allows for lower operating torques
  - Tight seal from bi-directional pressure
  - Corrosion and erosion resistant
- One-piece seat integrated body
  - Conical and inclined
  - Ultimate rigidity
  - Leak-free performance
  - Uninterrupted flange sealing surface
- One-piece shaft and disc arrangement
  - Minimal hysteresis
  - Improves flow capability
  - Reduces pressure drop
- Special bushings offer immunity to dirt and polymeric media creating a longer service life
- Adjustable stuffing box allows flushing, additional sealing, leakage control or monitoring

**Benefits**

- Unique triple eccentric metal seat design
- Integral external position indicator on valve shaft and body
- Wide range of materials and sizes
- Triple eccentric design
- External anti-blowout device
- One-piece seat integrated body
- Conical and inclined
- Ultimate rigidity
- Leak-free performance
- Uninterrupted flange sealing surface
- One-piece shaft and disc arrangement
- Minimal hysteresis
- Improves flow capability
- Reduces pressure drop
- Special bushings offer immunity to dirt and polymeric media creating a longer service life
- Adjustable stuffing box allows flushing, additional sealing, leakage control or monitoring
Typical applications

- LNG
- Process fluids
- Hydrocarbons
- Steam / geothermal steam
- Hot gas / sour gas (NACE)
- Oxygen / hydrogen

> Blow down
> Sulphur recovery
> Acid / caustic / chloride
> Abrasive service

### Materials
- WCB
- CF8M, CF3M
- LCB, LCC, LC3
- Duplex
- Superduplex
- Monel
- Hastelloy
- 254 SMO
- Alloy steel WC6, WC9
- Inconel
- Alloy 20
- Aluminium bronze
- Titanium
- C5, C12

### Product Specification

#### Body styles
See below

#### Production range
- ND 2” – 160” ANSI Cl.150
- ND 2” – 160” ANSI Cl.300
- ND 3” – 80” ANSI Cl.600
- ND 6” – 48” ANSI Cl.900
- ND 6” – 48” ANSI body in ANSI Cl.1500 / ANSI Cl.2500 with ANSI Cl.900 trim

#### Temperature limits
From -196°C (-320°F) up to +818°C (+1600°F)

#### Pressure limits
From full vacuum – up to +450 bar (2200 psi)

#### Applicable standards
- Design: ANSI B16.34/ ASME VIII/ API 609
- Face to face: API 609/ ISO 5752
- Fire test: BS 6755–API607–ISO FDIS 10497
- Fugitive emission: ISO 150484-1
- Testing: API 598

#### Rating
- NP 6 – 10 – 16 – 25
- ANSI Cl.150 – 300 – 600 – 900 – 1500 – 2500

#### MVF: Double Flanged (Class 150) dimensions

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### Other body styles available
- Double flanged ISO 5752
- Double flanged ANSI B 16-10 (gate)
- Wafer & lugged API 609
- Butt-weld