





WKM Valves— Triple Offset Valves

High-quality, bidirectional valves for critical applications in demanding markets





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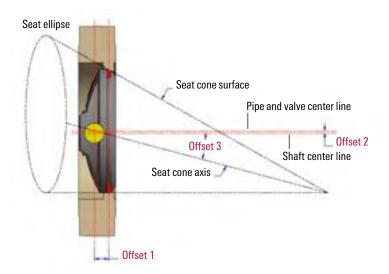
The TOV completes our reliable, performance-proven, quarter-turn butterfly valve portfolio. The true triple offset geometry of this valve allows for bubble-tight sealing to create a valve that delivers fully bidirectional zero-leakage shutoff per API Standard 598.

Backed by our world-class engineering, manufacturing, and sourcing expertise, the TOV provides a trusted solution ideal for crucial applications. Operators around the world rely on our dedication to high-quality standards, competitive manufacturing processes, and world-class support for total valve life cycle support.

Advantages

- True triple offset geometry
- Fully bidirectional zero-leakage shutoff per API 598
- Field-replaceable metal seat
- Life cycle tested as a bubble-tight bidirectional valve
- Standard bearing seals
- Self-centering disc
- Available in a wide range of configurations: lug and short (ISO) and long pattern
- Carbon and stainless steel standard; other materials on request

Triple Offset Geometry



Offset 1 provides full 360° uninterrupted sealing.

Offset 2 provides eccentric rotation of the disc that swings the seal ring completely off the seat upon opening.

Offset 3 moves the centerline of the cone rotation laterally from the centerline of the disc rotation, enabling the cone to seal without rubbing.





Compliance and Specifications

API Standard 609

ASME B16.34

ASME B16.5

API Standard 598

ISO-5752 flange dimension

ASME B16.47 for Series A mating pipe flange dimensions for valve sizes 26 in and larger, Classes 150, 300, and 600

ASME B16.10

MSS-SP-55

ISO 5211

API Standard 607, latest edition for fire testing

Fugitive-emissions testing per API Spec 641 and ISO 15848-1

Major Markets

Power and steam

- District heating
- Bitumen

Petrochemicals (refining and chemicals)

- Coking
- Reformers cracking
- Tank switching
- Ethylene
- Butadiene
- Isocyanates plastics

Midstream

- Tank and terminal
- Tank switching
- Long pattern for gate valve replacement
- Storage for all types of hydrocarbons and chemicals
- Liquid transfer

Upstream production

- Process equipment
- Separation molecular sieve
- Switching
- Floating production platforms
- Manifolds
- Slurry, oil sands, and SAGD methods
- Secondary recovery

Applications

Oil and gas

- Critical isolation
- Steam piping and condensate
- Offshore platforms
- Cooling water systems
- Seawater
- Produced fluids processing systems

Refining and petrochemical processing

- Hydrocarbon processing
- Hydrogen
- Oxygen
- Thermal fluids
- Hot gases
- Sulfur (tail gas)

- Chemical solvents
- Chlorinated solvents
- Flare gas

Liquefied natural gas

- LNG storage
- LNG production

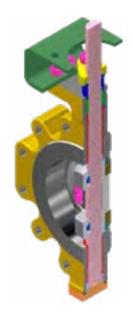
Power and district heating

- Steam isolation
- Hot water control systems
- Geothermal steam

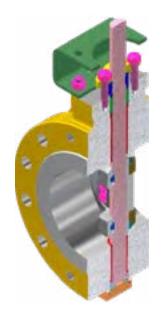
Midstream

- Tank isolation
- Manifold system isolation
- Metering systems
- SCADA systems

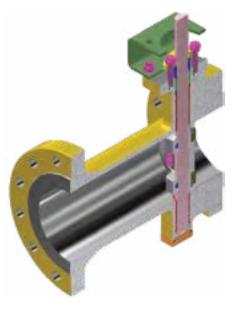
Flange Connections



Lug pattern per API 609



Short pattern per ISO 5752/API 609



Long pattern per ASME B16.10 and API 609

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