The More You Know

September 24, 2025

The Perfect Shutoff

Available from Milwaukee Valve

Milwaukee Valve's new TØV series takes precision performance to a higher level. Its triple offset geometry creates valves that deliver bidirectional, **zero-leak sealing** — even under higher pressures and temperatures. This same design makes TØV triple offset valves firesafe, corrosion resistant and maintenance free, too.

Think about it. What is the purpose of a shutoff valve? For some, it is shutting down a system for the season, or performing routine maintenance, or isolating downstream piping in an emergency. Many systems shutoff valves have been neglected since installation. Most get exercised infrequently, if ever. Preventative maintenance and repair protocols are often lax at best. And consider that many legacy valves like gate valves have metal-to-metal seats which are ***allowed*** by industry standards to certain amount of leakage. That's not the case with Milwaukee Valve's TØV.

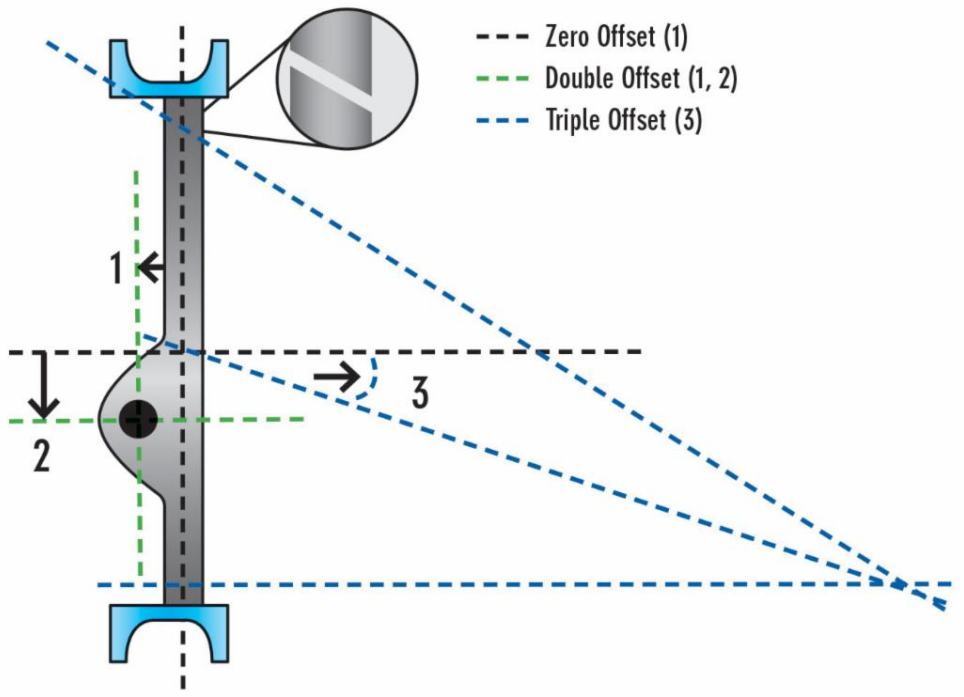
Imagine scheduling a planned outage. The necessary products have been ordered, and the crew shows up on site. What happens when the isolation valves fail, and upstream media continues past the main shutoff? Simply put, work stops. Crews are sent home, and thousands of dollars are wasted waiting for the problem to be resolved and work to resume. Oh, and very unhappy building owners.

The solution? A valve with metal sealing surfaces capable of withstanding high pressure and temperature service all while providing bubble tight shutoff. No more stem leaks and no more downstream leakage past the closure. The TØV from Milwaukee Valve is just such a solution.

Designed with critical services in mind, the TØV from Milwaukee will perform flawlessly when it matters most; when it needs to.

What is Triple-Offset Geometry?

Triple Offset is a design feature in butterfly valves where the valve stem, disc and sealing surface are all positioned at different off-center angles. Combining these three offsets produces a highly precise, bubble-tight seal with minimal operating friction — even at high pressures. TØV triple offset valves pass API Standard 598 for no-leak, bidirectional shutoff you can trust.



Offset 1 – The stem is offset behind the seat axis, to provide complete sealing contact around the entire seat.
Offset 2 – The stem centerline is offset from the pipe and valve, allowing interference-free opening/closing.
Offset 3 – The seat cone axis is offset from the stem centerline to eliminate friction during opening/closing, and achieve uniform compression and sealing around the entire seat.

To learn more about new Milwaukee Valve TØV valves, and download spec sheets or access 3D

CAD drawings and BIM modelling, visit our **TØV** product page at **www.MilwaukeeValve.com**. While there, you'll also find downloadable product literature, and Milwaukee Valve representative contact information to help you with application questions on any Milwaukee Valve products.

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