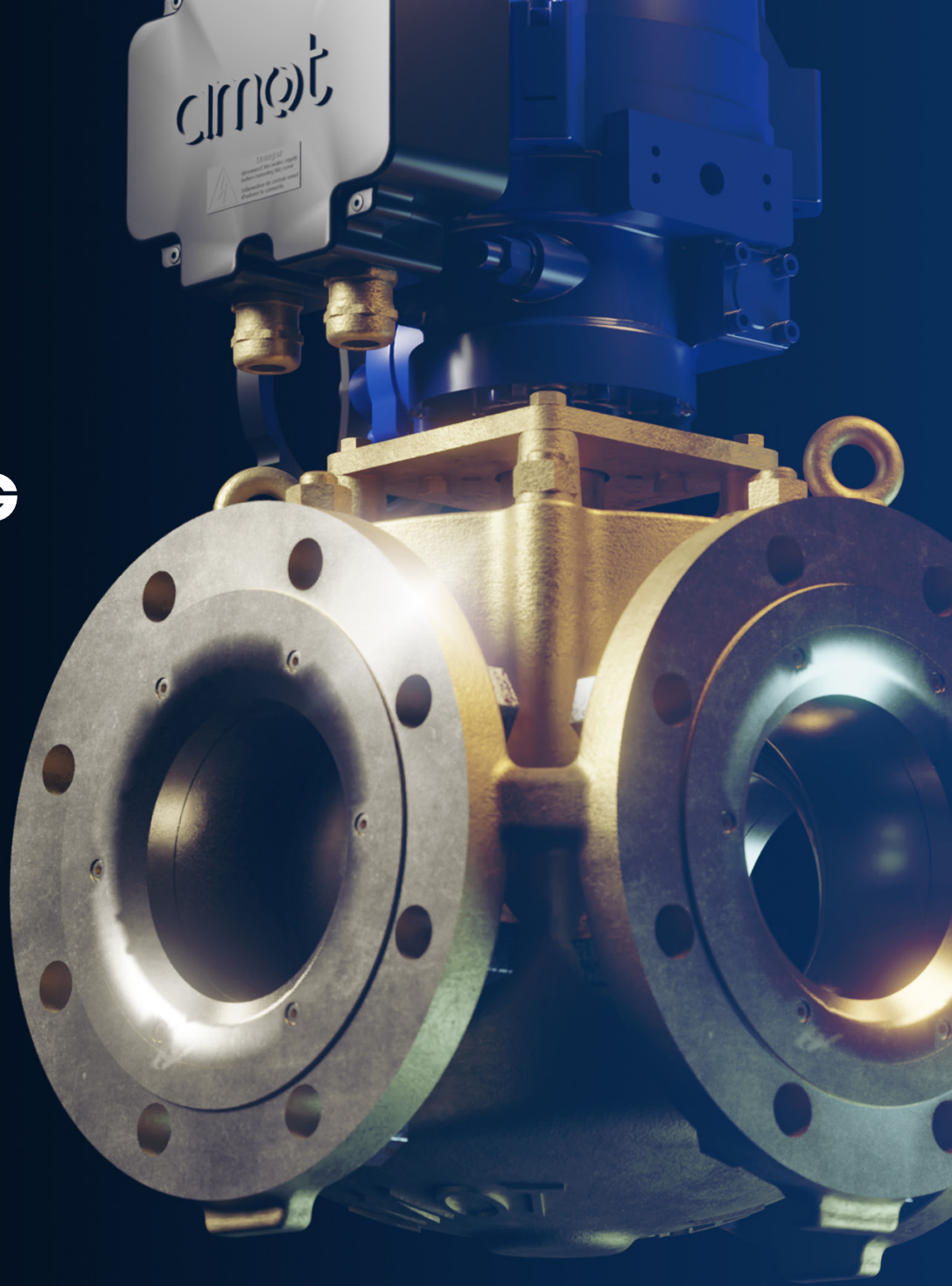
AMOT MODEL G ROTARY VALVE

The most compact, durable, flexible choice for temperature control



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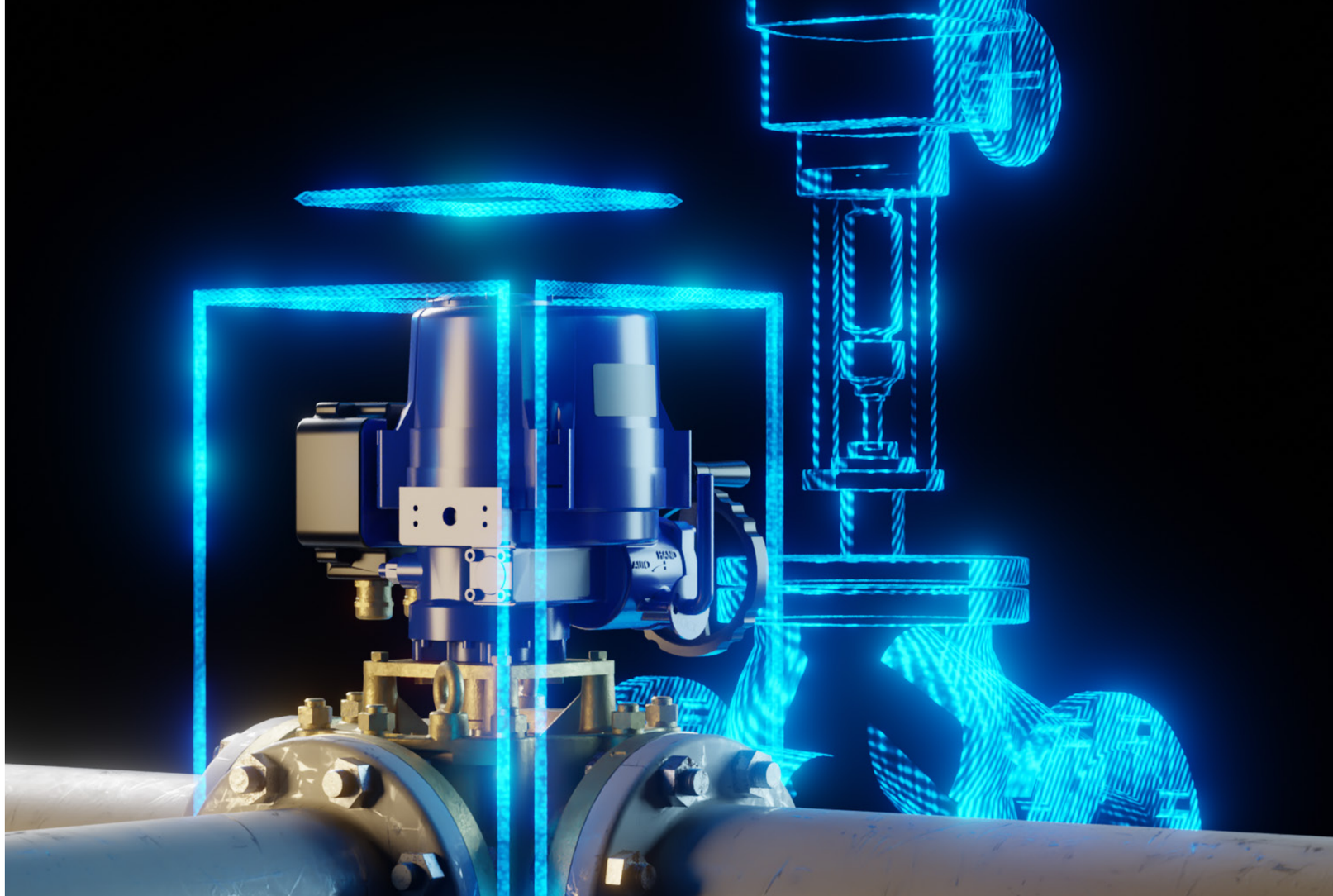
Maximizing Equipment Efficiency

Fluid temperature control is essential to maximizing equipment efficiency. To maintain temperature accuracy, reduce fuel consumption, and limit emissions, engineers traditionally have specified a globe valve. Recently, many industries have begun transitioning to rotary-style valves in order to achieve highly accurate and flexible temperature control of cooling fluids commonly found in lubricating oil, jacket water, charge air, central cooling, and heat recovery systems.

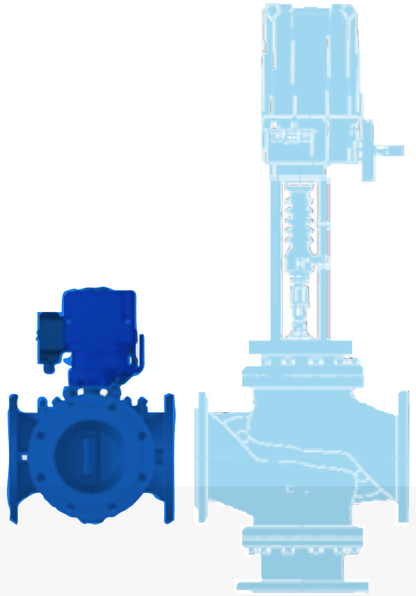
The AMOT Model G Rotary Valve offers a unique set of advantages over globe valves and other rotary valves currently on the market. It is the smallest, most economical choice when you need durability, tight temperature control, and flexible options.

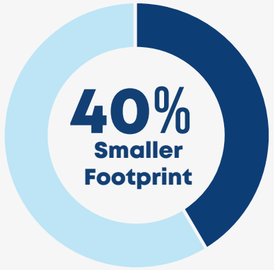


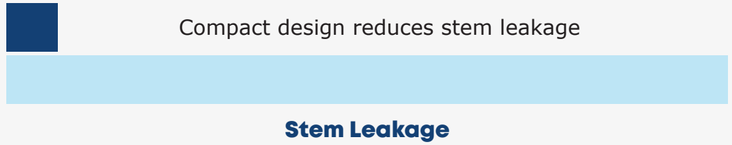
Great Things Come in Compact Packages

A globe valve's linear configuration requires a large footprint to operate. By comparison, the Model G's compact rotary design produces a 40% smaller footprint when measured against a globe valve with a similar port size. This compact size greatly reduces the potential for valve failure or stem leakage caused by high vibration environments.

- Easily fits in small spaces
- Lightweight
- Reduces installation time
- Decreases overall package size



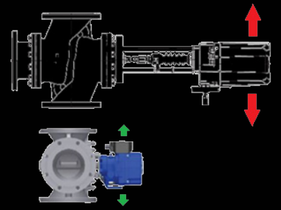


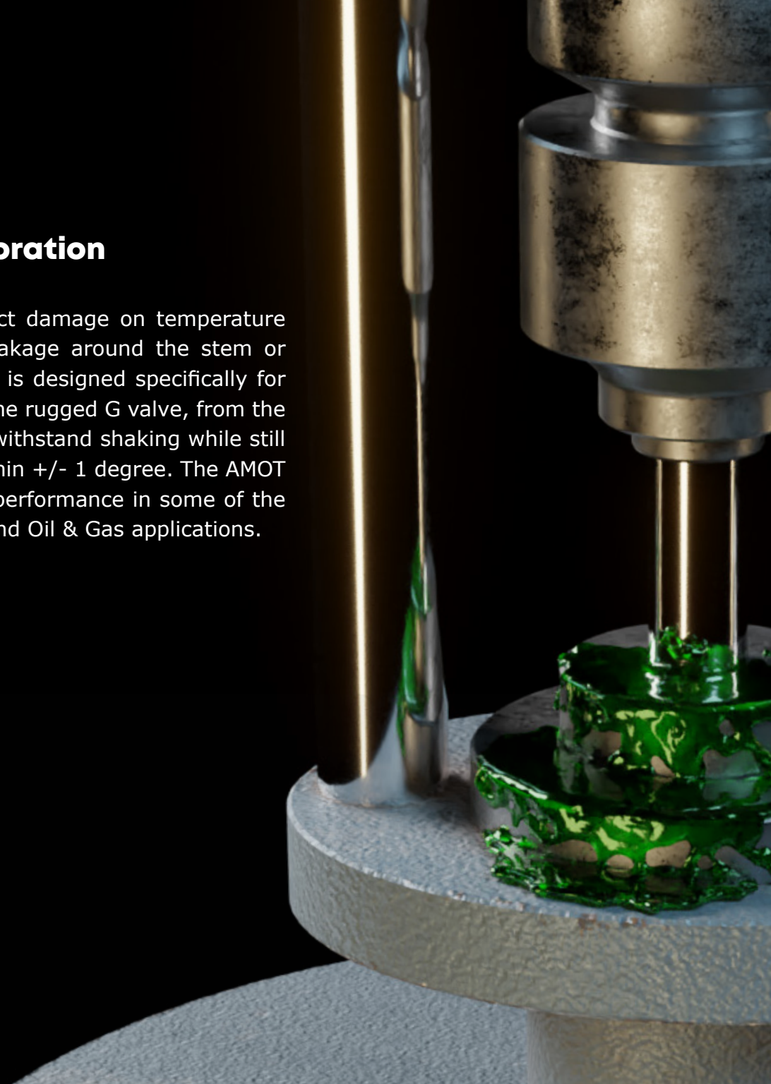


Durable Design Resists Vibration

High vibration environments can inflict damage on temperature control valves, often causing fluid leakage around the stem or total valve failure. The AMOT G valve is designed specifically for these applications. Everything about the rugged G valve, from the rotor to the actuator, is reinforced to withstand shaking while still maintaining temperature accuracy within +/- 1 degree. The AMOT G valve has over 25 years of proven performance in some of the roughest Marine, Power Generation, and Oil & Gas applications.

- Durable, yet highly accurate
- Rugged, yet lightweight
- Robust, yet compact

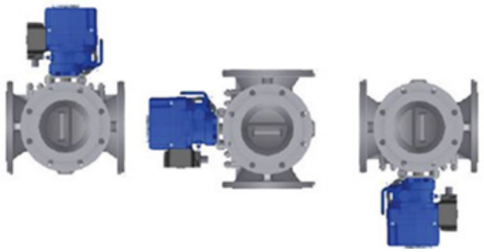




Flexible Configuration and Orientation

No other 3-way valve offers greater flexibility than the G valve. The rotary design allows you to choose which port to set as the hot, cold or common port simply by configuring the actuator to move clockwise or counterclockwise for a given control signal. This feature can offer a significant advantage when designing pipework, especially where space is tight. So, design your pipework first and then simply configure the valve to fit! And if the operation mode ever needs to be changed after delivery, the simple construction and set-up of the valve makes it possible to reconfigure in the field.

- Mount in any orientation
- Reconfigure in the field
- Variety of sizes, actuators, leakage class options
- Easy drop in replacement



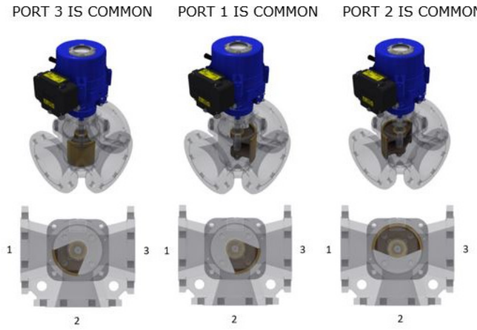


Fig 1
Mode 12 & 21

Fig 2
Mode 23 & 32

Fig 3
Mode 13 & 31

Bottom Line Friendly

You already know that precise temperature control optimizes engine performance, resulting in efficient equipment and lower fuel consumption. The AMOT Model G benefits your budget in other ways, too—and who doesn't like to save money? The rotary style G valve has a higher flow rate compared to an equivalent-sized linear stroke valve, which allows a smaller valve to be specified and still meet flow coefficient requirements. Using a smaller-sized valve, combined with the money saved by reducing the overall piping design, keeps your costs under control. And, when specifying a replacement valve, AMOT offers adapter kits to make installation quick and simple.

- Smaller size = smaller cost
- Precise temperature control improves engine efficiency, reduces fuel consumption
- Adapter kits allow drop-in replacement with limited pipe modifications

Leakage Class Options

	Good	Better	Best
	ANSI Class I	ANSI Class II Rated	**ANSI Class IV Rated**
Seat Leakage Rate	1-2%	.5%	**.01%**
Applications	Standard engine temperature control applications e.g Lube Oil, Jacket Water, Change Air	Elevated ambient temperature environments; with air-cooled heat exchangers; any application where extreme control is necessary	
Warm up Time	Long warm up time	Shorter warm up time	Ideal warm up time

System Cooling Capacity Increases

Specification

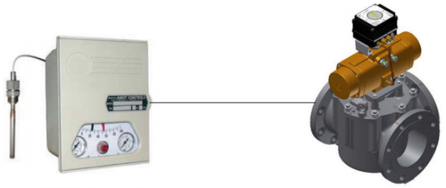
Size	2”-32” (DN50-800DN)	Largest port size range available
Temperature	-40 to 150 °C (-40 to 302°F)	Compact size does not negatively affect ability to control higher temperatures
Flow	7-3000 m^3/h (30-14000 gal/min)	Accommodates all engine sizes, large and small
Pressure	0-15 bar (0-218 psi)	
Body Material	Steel, Stainless Steel, Cast Iron, Ductile Iron, Bronze	G valve line suitable for oil, fuels, cooling waters, and corrosive fluids

Accessories to Complete your System

The **electric** valve system incorporates the use of an electrically actuated three-way control valve with an electronic controller. The 8071D PID Controller can be either panel or wall mounted The system is completed with a temperature sensor type 8060.

Temperature Probe 8060 | PID Controller 8071/2D, IP67 enclosure | GG Valve

The **pneumatic** valve system incorporates a pneumatically actuated three-way control valve with controller and integral temperature sensor, the SG80, which can be panel or wall mounted. For more information on the SG80.



SG80 Temperature Controller and Sensor | GG Valve

The **electro-pneumatic** valve system combines both electric and pneumatic technology, consisting of a pneumatically actuated three-way control valve with an electro-pneumatic converter, type 8064A.

Temperature Probe 8060 | Temperature Controller 8071D | Electro-Pneumatic Converter 8064A | GG Valve

Global Footprint

For additional information visit, www.amot.com

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