

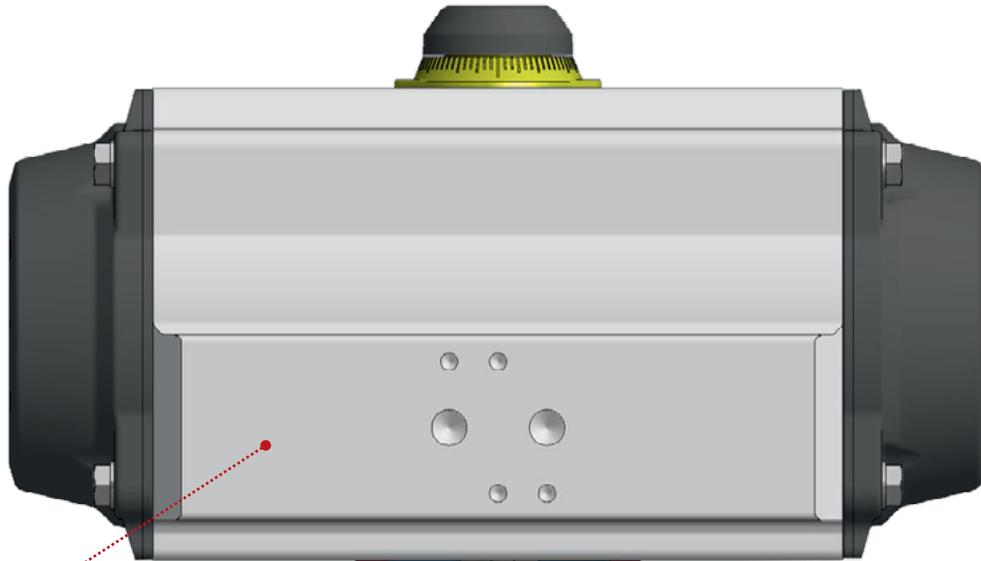
# SAMSON 62.7



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Double – Eccentric Rotary Plug Valve

# FEATURES AND BENEFITS



## Positioners and Accessories

- SAMSON accessories designed for direct attachment
- NAMUR dimensions for easy attachment of third-party positioners or accessories

## Compact Profile

- The Type 62.7 features a very compact design and much lighter weight than comparable valves, making it ideal for tight spaces and use on prebuilt skids

## Maximum Flow Capacity

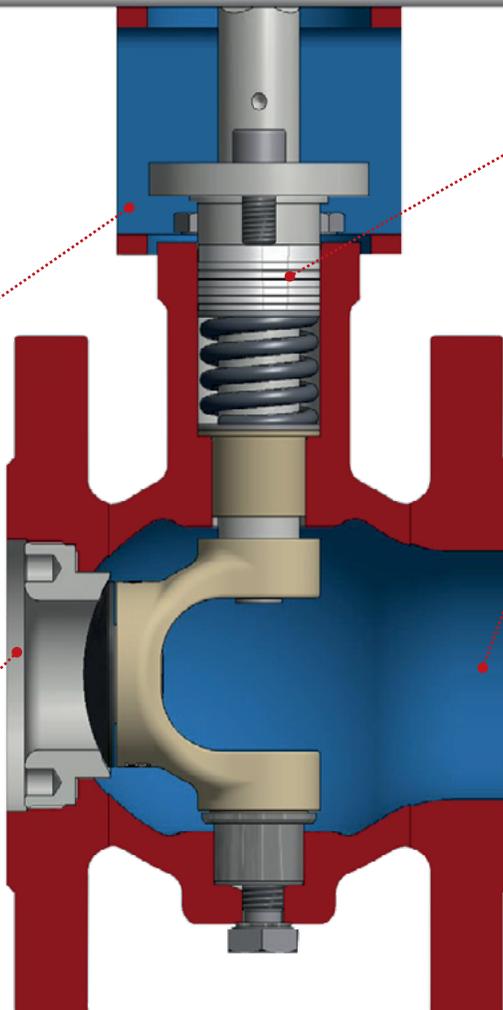
- The straight-through flow path allows for much higher flow capacities ( $C_v$ ) than standard globe control valves
- This also allows for a higher rangeability of up to 200:1

## Low-emissions Packing

- Low-emissions, spring-loaded, self-adjusting packing comes as standard to minimize maintenance requirements and extend service life

## Less Flow Disturbance

- Thanks to the free flow path when open, there is less turbulence in the flow and therefore reduced noise as well as less wear and tear on the internal and guiding parts



# TYPICAL APPLICATIONS



## Furnace Heating Gas Shut-off Valve

**INDUSTRIES:** Chemical, refining

**APPLICATIONS:** Heating gas shut-off valve for furnaces in the cracking process and fertilizer production.

**CHALLENGES:** The valves typically remain open over long periods of time (six weeks to three months) and close only in emergency cases or for shutdowns to clean the furnaces. The feed gas is often contaminated with fine coke dust, which can cause the valves to clog up or seize if they are not designed correctly. On demand, the valves must operate very quickly and reliably.

**SOLUTION:** The Type 62.7 is resistant to clogging and seizure thanks to the free flow path and double-eccentric design.

## Cooling Water Control Valve

**INDUSTRIES:** Steel, food and beverage

**APPLICATIONS:** Continuous cooling in steel plants or pasteurization in food and beverage production.

**CHALLENGES:** High-precision cooling water control over a very large rangeability is required to accurately control the temperature in the process.

**SOLUTION:** The 62.7 offers the highest flow capacities ( $C_v$ ) among eccentric rotary plug valves on the market as well as a rangeability of 200:1 and high-resolution controllability over the entire control range.



## Utilities Valve

**INDUSTRIES:** All

**APPLICATIONS:** Water, steam, feed gas, etc.

**CHALLENGES:** Quick availability, simple handling and reliability.

**SOLUTION:** A large local inventory to offer most valve configurations with the shortest lead times possible.

The compact design, accurate control, and high reliability makes the Type 62.7 perfect for utilities applications.

## Water Recirculation Valve

**INDUSTRIES:** All

**APPLICATION:** Water recirculation for pump protection in fire pipelines.

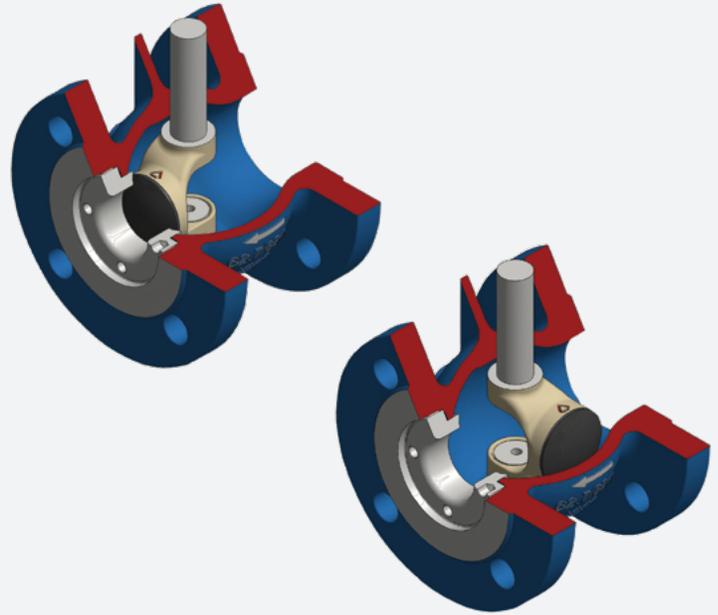
**CHALLENGES:** A sturdy design is required to prevent failure and meet the fire protection safety standards. Low-maintenance solutions are preferred to reduce cost and maximize uptime.

**SOLUTION:** The Type 62.7 features a strong seat and guiding design with no slack, which means less wear, precise control, and a compact design. Additionally, the high rangeability allows for many set points over the full operating range.

# DESIGN ADVANTAGES

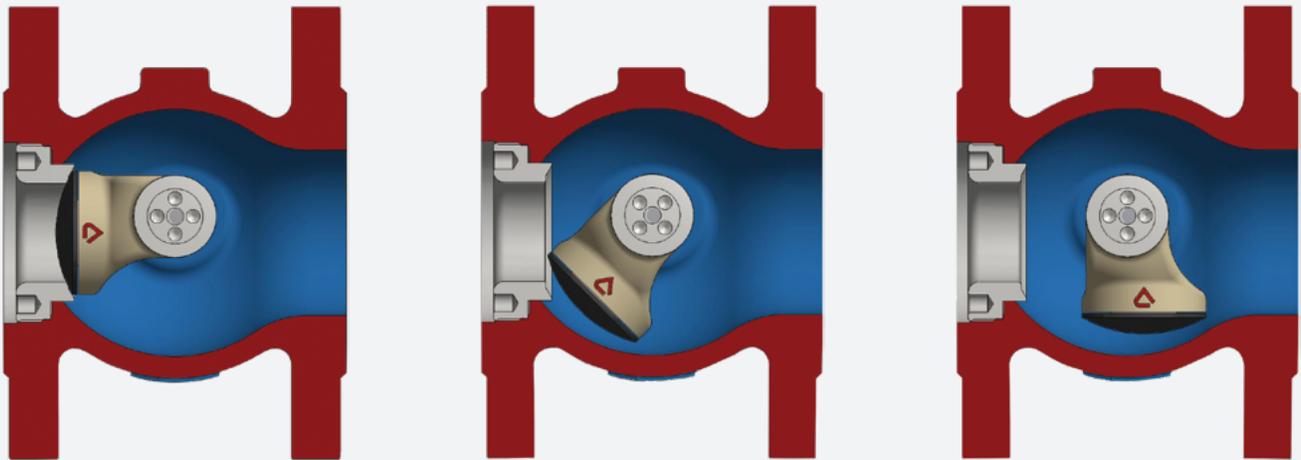
## ROTARY PLUG VALVES

- The plug is rotated in and out of the flow path to control either the flow rate passing through the valve or the downstream pressure
- Rotary plug valves are typically used for throttling service due to their excellent control abilities; however, they may also be used for isolation (on/off) applications requiring tight shut-off
- Different types of pneumatic actuators, electric actuators, or manual hand-wheels/gears may be used to operate the valves



## DOUBLE-ECCENTRIC DESIGN

- The plug shaft is offset from the centerline of the valve
- The face of the plug is offset from the centerline of the plug shaft



## DESIGN BENEFITS OF A DOUBLE-ECCENTRIC ROTARY PLUG VALVE

- Eliminates friction when the valve is opening or closing
- Reduces wear on internal parts
- Reduces the required breakaway torque
- Allows for more accurate control than other rotary valve types

# TECHNICAL DETAILS

<b>Valve Size</b>	NPS 1 to 8
<b>Pressure Rating</b>	ANSI Class 150 and 300
<b>End Connections</b>	RF Flanged
<b>Materials</b>	<ul style="list-style-type: none"><li>■ Carbon Steel (A216 WCC, A352 LC3)</li><li>■ Stainless Steel (A351 CF8M)</li></ul>
<b>Temperature Range</b>	-76 to +428°F (-60 to 220°C)
<b>Internal Leakage Rate</b> (According to ANSI/FCI 70-2)	<ul style="list-style-type: none"><li>■ Class IV: Metal Seat</li><li>■ Class VI: Soft Seat</li></ul>
<b>Face-to-Face Dimensions</b>	ANSI/ISA S75.08.02 (IEC 60534-2-3)

**SAMSON's** technology has proven its value worldwide in a variety of industries. We are trusted in many of the world's most challenging applications to achieve precise control with a high level of safety and reliability.

The SAMSON product portfolio offers engineered solutions from a single source. With our extensive range of valves, actuators, and accessories we have the right products to suit your requirements.

Our linear and rotary control valves are carefully selected and sized to ensure reliable operation with reduced maintenance requirements. The latest in positioner technology offers precise control, seamless

integration into process control systems, and advanced diagnostics to allow for predictive maintenance.

The modular design of our products allows customers to benefit from a tailor-made solution at an affordable cost. Furthermore, the interchangeability of spare parts between different valve models and sizes contributes to keeping inventory costs low.

Continuous investment in research and development allows us to stay at the cutting edge of technology. With over 100 years of experience and expertise, you can count on SAMSON to provide a robust solution for your application.

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