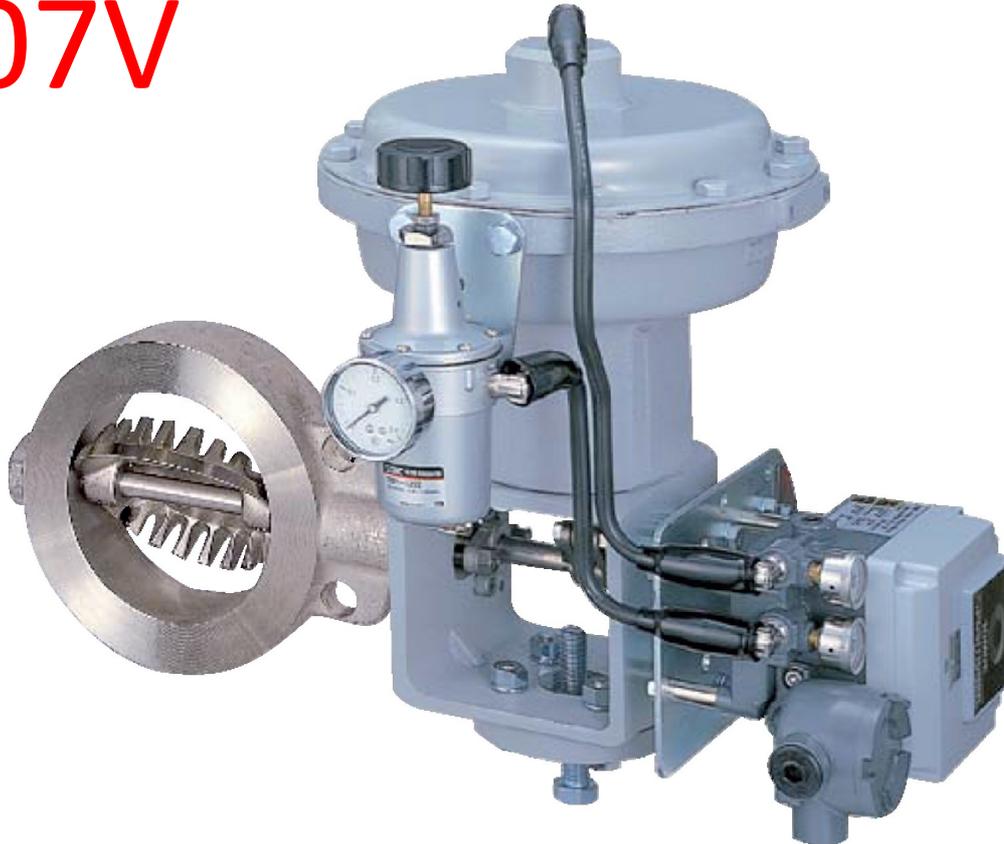
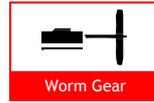


Rotary control valve for high temperature fluids up to 400°C

507V



Diaphragm



Worm Gear



Pneumatic Cylinder



Motorised

Features and benefits

For various applications such as air conditioning systems, pulp and paper mills, steel mills, chemical plants, food processing and many other process industries, the 507V rotary control valve will support your fluid control requirements.

Flexible control over a wide range

The 507V allows complete control over the full range from the open to the closed position. The valve can also handle high temperatures of up to 400 degrees C such as in steam lines and it will respond quickly and flexibly to any changes within the operating parameters of the process line. The 507V therefore is the optimum valve for any control system processing multiple products where the operating conditions change from time to time in accordance with process requirements.

Cost-effective rotary control valve

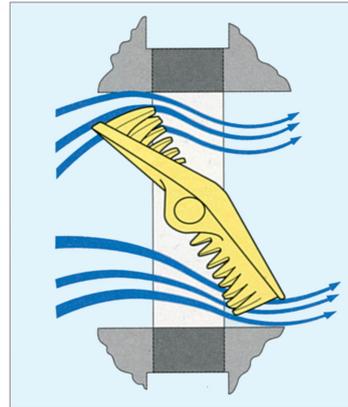
In spite of its compact size and light weight, the 507V has a large valve capacity that minimises the energy loss of fluid at the fully open position. This compact design reduces the required size of the actuator, installation space and piping supports. It also minimises vibration of control systems and increases the operating life. These features provide the benefit of reducing the total operating cost of your plant.

507V

Model 507V is the high temperature version of our rotary control valve designed for exclusive use in the regulation of fluids.

General Description

The high performance characteristics of this model originate from its unique design with a teeth and gull-wing shaped disc that touches the seat at a certain angle (Fig. 1). The teeth are arranged on the circumference of the disc towards either direction of flow. The 'touch-at-an-angle' disc assists the reduction of seating and unseating torque and facilitates smooth control of the valve. Other benefits include high rangeability, low noise level and anti-cavitation. This model covers a wide temperature range in the fluid control of air conditioning systems, pulp and paper mills, chemical plants, steel mills and food processing applications.



Standard Specification

Valve nominal size		50 to 400mm		
Pressure rating		50 to 200mm: ANSI Class 300lb 250 to 400mm: ANSI Class 150lb		
Actuator mounting		Non-flange joint		
Flange accommodation		JIS: 10K/16K/20K, ANSI Class 150lb, ANSI Class 300lb, DIN NP 10/16/25 Please contact us when 250mm/16K and over.		
Service temperature*	Cast steel	-10 to 400 degrees C. Following materials are used for 200 degrees C or higher – carbon for bearings, exfoliated graphite		
	Stainless steel	-50 to 400 degrees C. Following materials are used for 200 degrees C or higher – carbon for bearings, exfoliated graphite		
Rangeability		100:1		
Valve opening		Max. 70°		
Flow characteristics		Equal percent		
Leakage rate **		FCI 70-2 Class II		
Stuffing box		Studs and nuts tightening		
Standard materials	Body	50 to 200mm	Cast steel SCPH2	Stainless steel SCS14
		250 to 400mm	Cast steel SCPH2	Stainless steel SCS14
	Disc ***	50 to 150mm	Cast steel SCPH2	Stainless steel SCS14
		200 to 400mm	Ductile iron FCD450	Stainless steel SCS14
	Stem	Stainless steel SUS630 (SUS316)****		
	Bearings	Reinforced PTFE		Reinforced PTFE
	Packings	Exfoliated graphite		Exfoliated graphite
Gland flange	Stainless steel		Stainless steel	

*Please consult us if the application is in the range of 400 to 600 degrees C.

**The disc is gull wing shaped and touches the metal seat at an angle. This design minimises leakage to a level less than 0.5% of the rated Cv which is equal to or lower than the leakage permitted on a double-seat globe control valve.

***The disc is electroless plated with nickel.

****Please consult us if an SUS316 stem is required.