

## ROLLER VALVE R-2000

WINK™



### ■Straight channel

Solids and viscous fluid can flow smoothly the straight channel in fully open state.

### ■Body

The body is separable into the upper and lower parts for easy replacement of the sleeve located inside.

### ■Roller

The roller is made of corrosion resistant stainless steel. Its special shape enables the opening/closing of the sleeve without excessive force.

### ■Joint

The end face of the sleeve (seal part) has a convex shape, eliminating the need for gaskets.

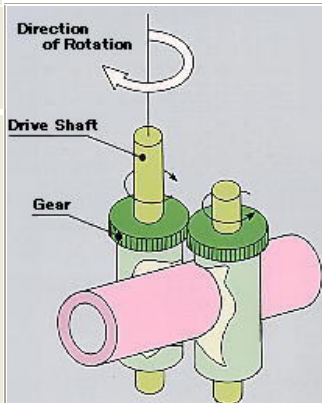
### ■Sleeve pressure

The sleeve (made of rubber materials) is reinforced with special fiber to allow a fluid pressure of up to 0.5 MPa.

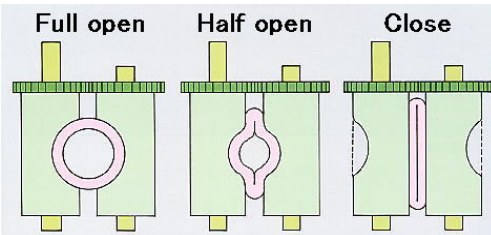
### ■Highly durable sleeve

V grooves on the upper and lower parts can minimize rubber fatigue at the closing to provide complete sealing.

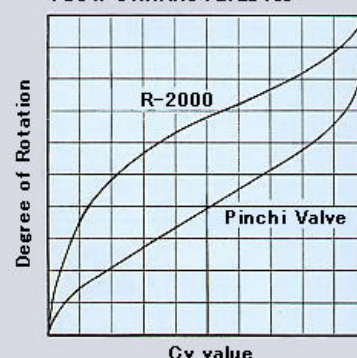
## Operation Principle



The rotation of two specially shaped rollers changes the opening area continuously for smooth flow operation.



### FLOW CHARACTERISTIC



## Usage

Wastewater treatment unit, waste liquid treatment unit, water purifier, filterunit, waste solvent collecting unit, waste oil treating device, denitration unit, exhaust gas/deodorant unit, waterworks, sewage disposal plant, sludge disposal plant, sludge treatment plant, waste treatment plant, chemical industry plant, paper manufacturing industry plant, food plant, etc.

## Standard Specification

Size	20A, 25A, 40A, 50A, 80A
Connection	JIS10K Flange
Body Case	Cast Iron
Sleeve	EPDM, NBR, CR, SI, FPM
Max pressure	0.5MPa
Temperature Range	Refer to the sleeve material table.
Cv value	20A : 30, 25A : 63, 40A : 155, 50A : 275, 80A : 620

## Sleeve Material

	Material	Color	Identification	Purpose	Suitable Temperature
Standard	EPDM (Ethylene Propylene Rubber)	Black	White	For General Use	-40 to +120 °C
Special	EPDM (Ethylene Propylene Rubber)	White	Non	For Food	-40 to +120 °C
	NBR (Nitrile Rubber)	Black	Blue	For Oil	+5 to +80 °C
	CR (Chloroprene Rubber)	Black	Green	For Acid	+5 to +90 °C
	SI (Silicone Rubber)	Red	Non	For Food heat-resistant	-40 to +200 °C
	FPM (Fluoro Rubber)	Black	Yellow	For Acid heat-resistant	-20 to +200 °C

(Note 1):The above temperature range is applicable under condition that the sleeve is not active without consideration of actual use of fluid. Inquire us because the value varies depending on fluid specifications (composition, pressure and temperature) and bore diameter.

(Note 2):The sleeve for food processing is designed to meet Standard Notification No.434 of the Ministry of Health and Welfare.

### Actuator Specification

Air Operation	Actuator Type	Air Cilinder, Operation Double Acting, Single Acting			
	Working Pressure	0.5MPa (MAX 0.7MPa)			
	Option	Solenoid Valve, Limit Switch, Airset			
Motor Operation	Type	Unic Z	Unic 05	Unic 10	Unic 20
	Motor	Single-phase Condenser Motor			
	Source	AC100, 200V 50/60Hz			
	Operation	0 to 130°(Control 0 to 90°)			
	Operation Time	6sec/50Hz	23sec/50Hz		43sec/50Hz
	Consumption	8W		20W	30W
	Protective Device	Thermal protect			
	AMB. Temp.	-25 to +55 °C			
	Insulating Resistance	100MΩ(500V DC)			
	Voltage-Resistance	1,500VAC (1min)			
	Manual Operation	Crank Handle			
	Waterproof(Capacity)	IP-55			
	Wiring Port of Connection	G1/2 × 1 Waterproof		G1/2 × 2 Waterproof	