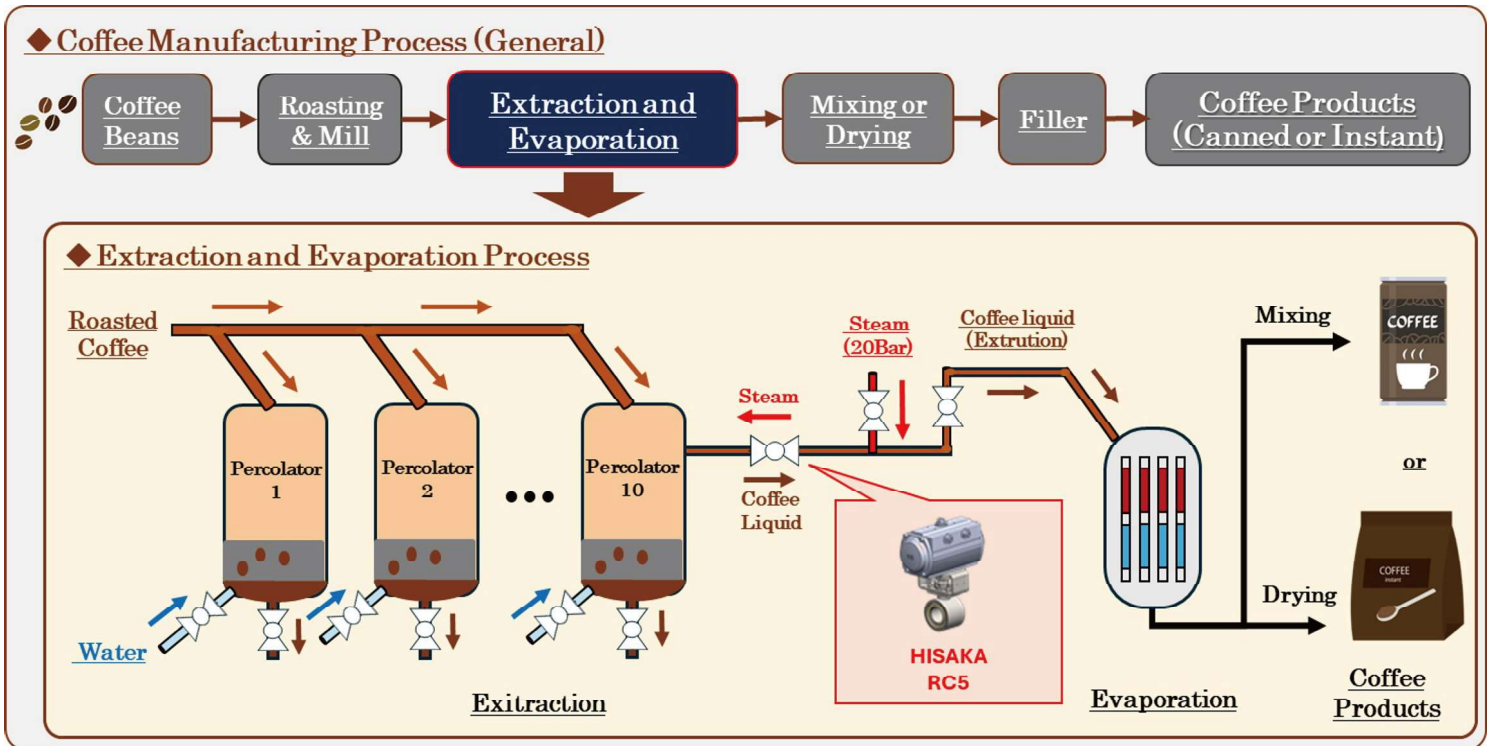


Valve Solution for Coffee Extraction Processes





◎ Common Issues in Extraction Processes

In the instant coffee manufacturing process, many users face challenges in the extraction stage. Fluid accumulation and solidification in the ball valve pocket area often cause rotation issues, leading to seat leakage.



Solidified coffee extract residue

◎ Optimal Valve Solution for Coffee Extraction Processes

RC5 is designed to be installed in percolators that perform coffee extraction, aroma extraction, and aroma recovery to suppress Off-flavour. Its durable design significantly reduces maintenance frequency and optimizes operating costs.

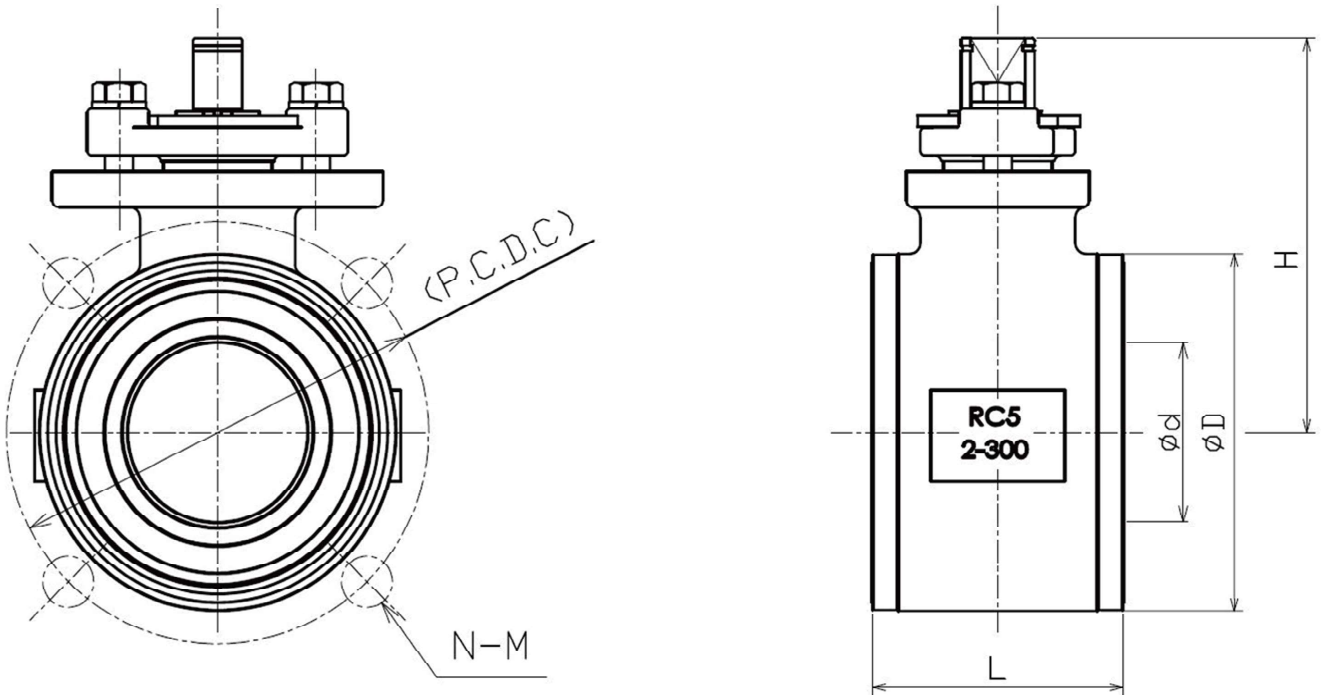
◎ Key Points

- ☑ Cavity-less design prevents fluid accumulation and enhances maintenance efficiency.
- ☑ PEEK seats technology ensures superior sealing performance and extended lifespan.
- ☑ Filter installed in the valve gland helps reducing fluid ingress, preventing solidification and ensuring smooth shaft rotation.

Designed to operate reliably under high-temperature and high-pressure conditions, RC5 contributes to improving efficiency and product quality in coffee manufacturing processes.

RC5 – Ball valve designed for coffee extraction

External Dimension



RC5-Dimension Table

[Unit : mm]

SIZE	Ball Bore ϕd	ϕD	H	L	Assembly Bolts		
					N	M	C
32A	32	70	82	48.2	4	M10	80.9
40A	38	82	100	56.2	4	M10	93
50A	51	101.6	112	71	4	M12	120
65A	64	123	135	84	6	M12	140

Types of Pipe connections

1. Wafer type

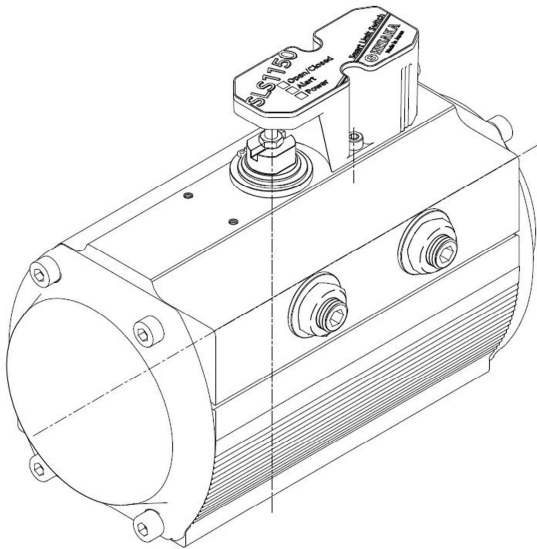
2. Butt-weld type

3. Flange type



*Piping connection standard: to be confirmed upon request

◎ Hisaka Pneumatic Actuator



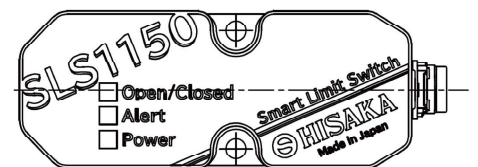
KRD actuator is a process actuator from Hisaka. Pneumatic Rack and Pinion Actuator features a flat output and high torque, making it ideal for powder and slurry processes. It is designed with ISO 5211/DIN 3337 mounting, allowing for easy installation of various solenoid valves with NAMUR connections and limit switches. As shown in the diagram on the left, limit switches and sensors can be mounted as needed.

► Specifications

- Body material: Hard anodized aluminum with powder-coated end cap
- Operating temperature: -20°C to +80°C
- Operating pressure: 3.0 bar to 8.0 bar
- Design pressure: 10.0 bar

► Option

Hisaka Smart Limit Switch features Open/Close counting and can be monitored via a mobile app (Bluetooth). It is also compliant with the NAMUR standard.



RAYCOH

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