

Disposable Check Valve for Medical use

PATENTED



Features

- Made of medical grade resin/rubber (polycarbonate/silicone rubber)
- Rubber production and assembly are made in our clean room in Japan
- Tube connection (Tube inner diameter: 2.5 mm)
- Small size (Diameter x Length: $\Phi 11$ x 23.1mm)

Specifications (tentative)

- Opening Pressure: 2kPa (after priming wash)
- Min. closing differential pressure: 15kPa (Fluids: water)
- Pressure resistance: 150kPa or more
- Flow rate: 550ml / min or more (at 100 kPa)

* Standard: No sterilization

Evaluation Methods and Results for the specifications

● Opening pressure

Confirmed that the valve opens when 2 kPa of water and air are applied from the forward direction. ※Evaluations using water are measured after priming.

● Min. closing differential pressure (JIS T 3211 5.16 Standard)

After priming, a pressure of 15 kPa to 150 kPa is applied in 5 kPa increments from the backstop direction and observed for 15 seconds to visually confirm that there is no continuous backflow.

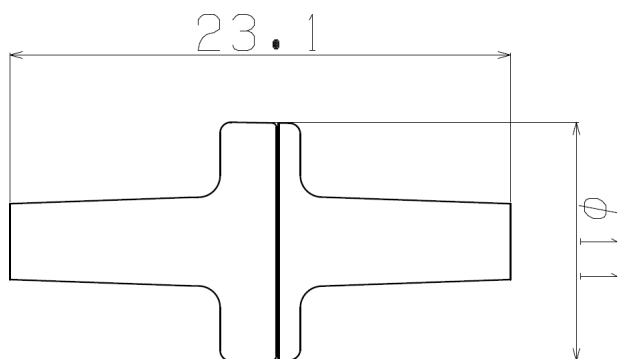
● Pressure resistance (JIS T 3248 5.5.1 Standard)

Check valve is submerged in a container of water at $37\pm 1^{\circ}\text{C}$ and air pressure of 150kPa is applied from the check direction for 10 minutes to confirm that no continuous bubbles are generated

● Flow rage

Random sample	1	2	3	4	5	6	7	8	9	10	Ave.
Water[ml/min]	600	610	590	600	610	595	610	580	615	590	600

Note) ※This flow rate is based on a tube with an inner diameter of 2.5 mm and an applied pressure of 100 kPa.



< Contact >

 **FUJIKURA COMPOSITES**

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Founded: 1901

Sales: \$281 million US dollar (2023 March, consolidated)

ISO certified: 9001, 14001, 13485