

NEW

FINE series PURE

Dual-Flow Valve



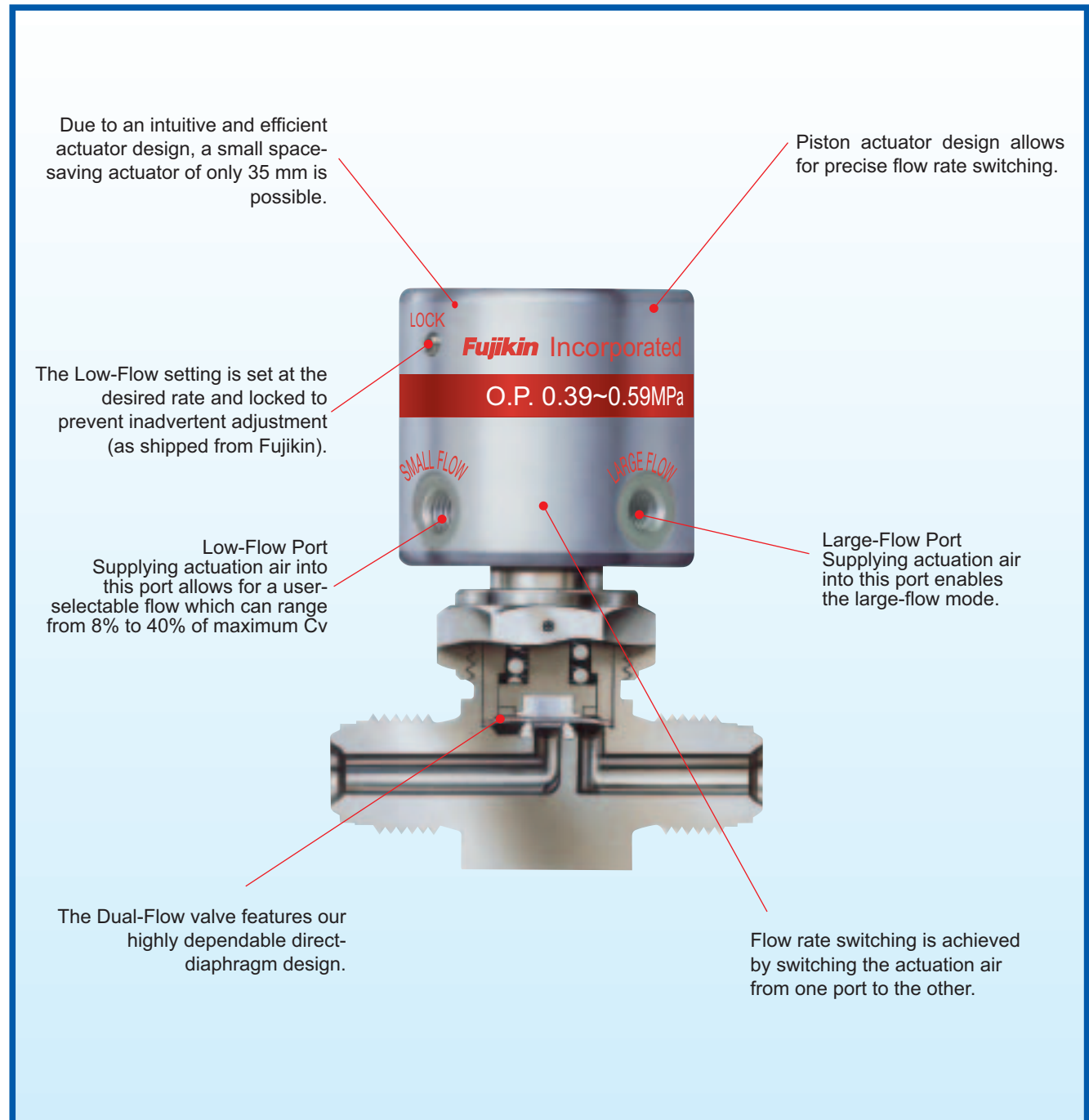
Safety & Clean Technology

Fujikin Incorporated

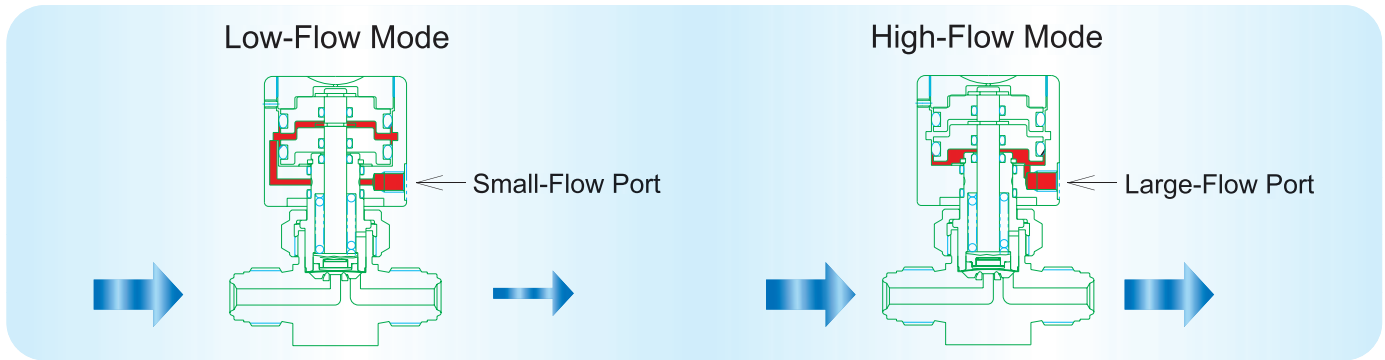
Dual-Flow Valve

The Dual-Flow Valve was developed for the purpose of preventing the disruption of particles due to the rapid influx of gases within advanced semiconductor process chambers .

By being able to introduce gas into the process chamber gradually, then following with maximum flow, pressure within the chamber can now be uniformly raised. Large volume chambers may also be accommodated - something that until now was difficult to achieve with conventional slow-start valves.



OPERATING PRINCIPLE

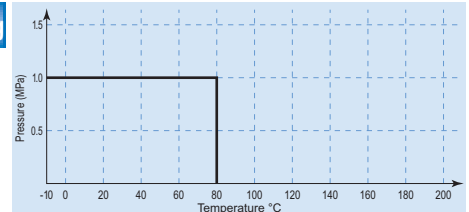


SPECIFICATIONS

Specification	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv	Actuation Pressure	End-Connections
	6.35 (1/4")	1 MPa 145 psi	-10~80 °C 14~176 °F	0.1	0.39~0.59 MPa 56~85 psi	UJR, UPG
	9.52 (1/2")			0.6		

- All valves are helium leak tested. Vacuum method results: External leakage: $<5 \times 10^{-12} \text{ Pa}\cdot\text{m}^3/\text{sec}$. Seat Leakage: $<5 \times 10^{-12} \text{ Pa}\cdot\text{m}^3/\text{sec}$
- Low-Flow Rate Setting: 0 to Maximum Cv
- High-Flow Rate Setting: Maximum Cv Only

Temperature/Pressure Rating



PART NUMBER DESIGNATION

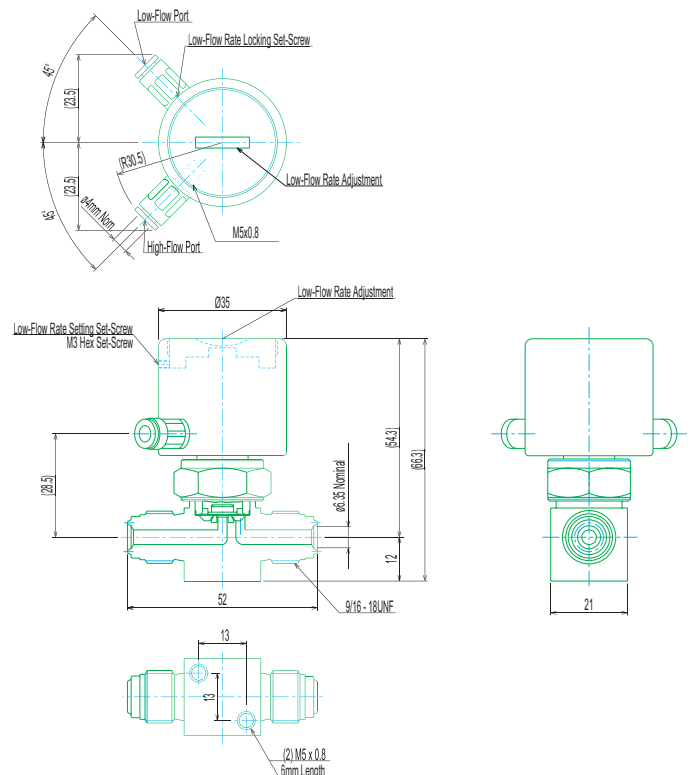
FPR-SD-71SS2-6.35
AA-1-1-1

A	B	C	D	E
Primary Pressure (MPa) A: 0.4 B: 0.45 C: 0.5 D: 0.55 E: 0.6	Secondary Pressure (MPa) A: 0.05 B: 0.1 C: 0.15 D: 0.2 E: 0.25	1: Chamber Volume (L)*	1: Low-Flow Rate Time (sec)*	High-Flow Rate Time (sec)*

* Set according to customer's operating conditions.
3/8" connection can be accommodated.

DIMENSIONS

(Unit: mm)





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The product data in this catalogue was obtained under specific test conditions that may vary substantially from actual site conditions and / or customer needs.

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OUR TRADE MARK



Fujikin Main Products

Stainless Steel Forgings, Stainless Steel Castings, Brass Forgings, Steel Forgings, Alkes®, Corrosion Resistant Aiuminum Forgings, Gun metal, Hastelloy Products, Zirconium Products, Tantalium Products, Titanium Products, Fujibloy Products, Plastic Products, Fine Ceramic Products, Other Special Metals, New Metal and Material Products.

—Valves—

- Various Types of Super Valves
- Various Types of Needle Valves(domestic patents×6)
- Block valve for every extra-high pressure
- QS valve® (international patent×7countries)
- Compact valves
- Various miniature valves
- Diaphragm type "MINI" control valves
- Soler old valves (domestic patent×3)
- Various Ball valves
- Various joints (domestic patent)

—Precision Machinery and tools—

- Atomic valve unit, joints etc. (domestic patent)
- Valve unit, joints etc. for the development of the universe (domestic patent)
- Valves unit, joints etc. for the development of the ocean (domestic patent)
- Valves unit, joints etc. for the development of the electronic machinery and tools (domestic patent)
- Valves unit, joints etc. for the development of the related machinery and tools to medical treatment.

—Unit · Apparatuses—

(example)

- Fuji-Tepler®, seal tape automatic winder (domestic patent)
- Provider power unit(domestic patent)
- Air Trap FAT®, PA-30B(international patent)
- Every Dry® (international patent)
- Sealless® finished product (domestic patent) (Sampling rack)
- Device for the collection of water in the can (Sampling rack)
- Chemical vapour doping system
- Anodic oxidation coating system
- Tester for valves, joints
- Medical treatment appliances
- High pressure gas apparatus
- Air computer (patented)
- Airtronics® (Hydraulic electronics controlling system)
- Contronics® (Hydraulic automatic control system)

—Special Products—

- Designing and manufacturing of Special Valves, Cocks, Joints, etc.

—Overseas Tie-up Products—

- UNTECH Hand Shrink Guns (technical tie-up products with West Germany)
- SAMUMAT automatic shrink wrapping machine (technical tie-up products with West Germany)
- Positioner (technical tie-up products with U.S.A)
- Hydraulic technic oil pressure appratus (technical tie-up products with West Germany)
- LEGRIX LF3000-one touch fitting (sales tie-up products with France)
- Glass fiber ball valves (sales tie-up products with the U.S.A)

—Products and Services—

- General piping components
- General service