

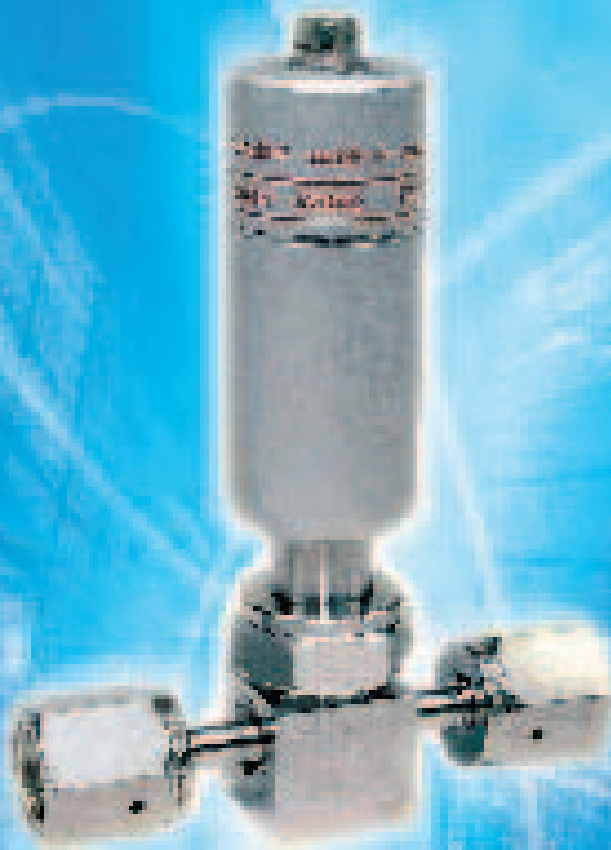
NEW

FINE series PURE

Compact Direct Diaphragm Valve

ECV

Electrically Controlled Valve



Safety & Clean Technology

Fujikin Incorporated



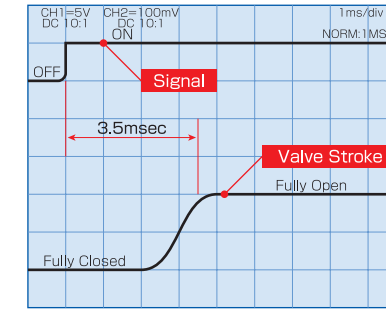
Electrically Controlled Valve

The Electrically Controlled Valve (ECV) is the industry's first diaphragm valve for special materials and high-purity gases to utilize an electric actuator.

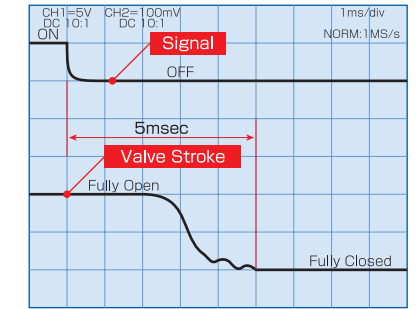
By employing a high-strength solenoid made of cutting-edge materials, rapid open/close cycling and the reduction of actuator size is now possible.

RESPONSE CHARACTERISTICS

● Fully-closed to fully-open in about 3.5 ms.



● Fully-open to fully-closed in about 5.0 ms.



SPECIFICATIONS

Valve	Nominal Diameter	Maximum Operating Pressure	Maximum Cv	Fluid Temperature Range	End-Connections
	6.35	1 MPa / 145 psi	0.1	-10 ~ 80 °C 14 ~ 176 °F	UJR, UPG

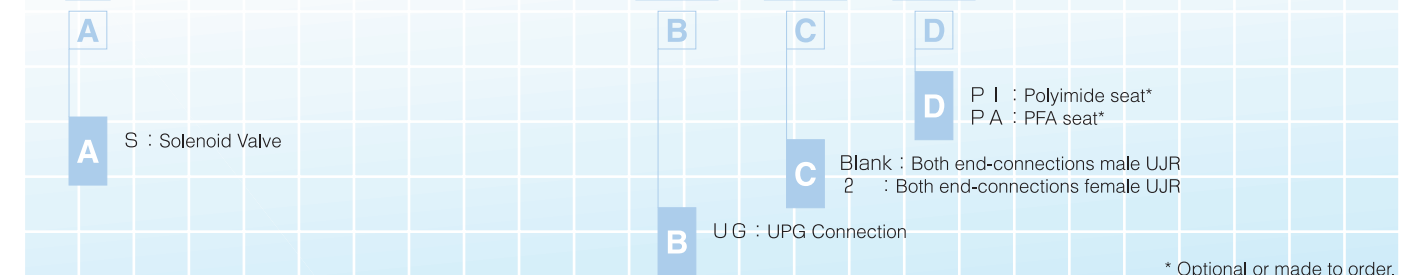
● All Valves are helium leak tested. Vacuum method results: External leakage: $<5 \times 10^{-12}$ Pa·m³/sec. Seat leakage: $<5 \times 10^{-12}$ Pa·m³/sec

Drive Unit	Supply Voltage	Control Signal	Maximum Valves Per Drive Unit	Minimum Time Between Actuation
	AC 100~240V	Contact Input	8 Maximum	0.25 seconds with one valve connected 2 seconds with eight valves connected

For large-volume orders, a special continuous-duty, high-speed power supply may be provided.

PART NUMBER DESIGNATION

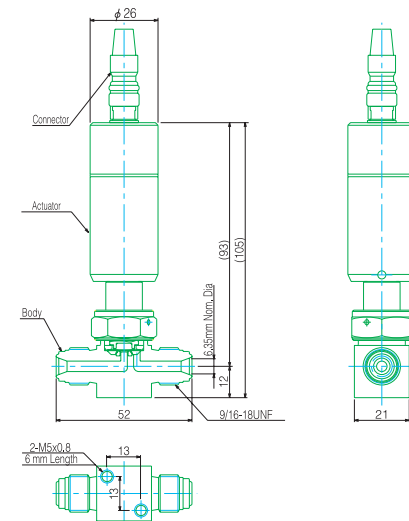
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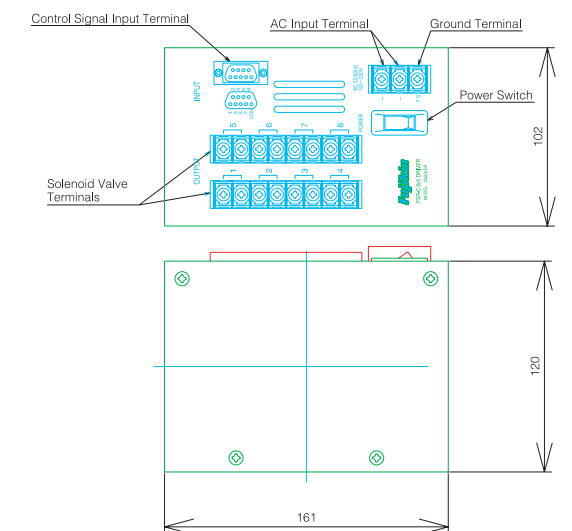
Actual shipped products may have additional designations (such as #A, #B) in the part number. These indicate production history and do not indicate a change in function or dimensions.

DIMENSIONS

(Unit: mm)



STANDARD DRIVE UNIT



An actuation solenoid is not necessary as the ECV is driven exclusively by a dedicated drive-unit.



Highly-durable nickel-cobalt alloy diaphragm

All wetted surfaces receive our UP Treatment

Standard seat material is PCTFE

Excellent gas displacement characteristics, (0.84 cc total volume for male UJR version).

Superior durability - over 4 million cycles achieved.

The use of a high-strength solenoid allows for open/close times that are 20x faster than conventional air-operated valves.



Fujikin Incorporated

Fujikin of America, Inc.

Fujikin Deutschland GmbH.

Head quarters:

Kita-Hankyu Bldg., 4-8, Shibata1-chome, Kita-ku, Osaka 530-0012, Japan
 Phone: (81) 6-6372-7141 (Switch Board Number)
 Fax: (81) 6-6375-0697

Tokyo Head Office:

3-6, Nihonbashi 2-chome, Chuoku, Tokyo 103-0027, Japan
 Phone: (81) 3-3273-0301 (Switch Board Number)
 Fax: (81) 3-3273-0901

Overseas Operations Division:

Tokyo Office:

3-6, Nihonbashi 2-chome, Chuoku, Tokyo 103-0027, Japan
 Phone: (81) 3-3273-0301 (Switch Board Number)
 Fax: (81) 3-3273-0901

Osaka Office:

Kita-Hankyu Bldg., 4-8, Shibata1-chome, Kita-ku, Osaka 530-0012, Japan
 Phone: (81) 6-6372-7141 (Switch Board Number)
 Fax: (81) 6-6375-0697

U.S.A. New Jersey Office:

4 Alsan Way, Little Ferry, NJ 07643, U.S.A.
 Phone: (1) 201-641-1119
 Fax: (1) 201-641-1137

U.S.A. West Office:

Parkway Plaza 4677 Old Ironsides Dr. #100, Santa Clara, CA 95054, U.S.A.
 Phone: (1) 408-980-8269
 Fax: (1) 408-980-0572

U.S.A. Austin Office:

2028E, Ben White Blvd, Suite320 Austin, Texas 78741, U.S.A.
 Phone: (1) 512-912-9095
 Fax: (1) 512-912-8095

U.S.A. Oregon Office:

One World Trade Center, Suite 1100 121SW Salmon Street, Portland, OR 97204, U.S.A.
 Phone: (1) 503-471-1340
 Fax: (1) 503-471-1341

Dusseldorf Office:

Leopold strasse 9, 40211 Dusseldorf, Germany.
 Phone: (49) 211-350458/459
 Fax: (49) 211-363990

Main Plant with Stocking & Distribution Center:

3-9-21, Nagata, Higashi-Osaka 577-0015, Japan
 Phone: (81) 6-6787-2201
 Fax: (81) 6-6787-4541

IMPORTANT NOTICE:

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 Aluminum Forgings, Gun metal, Hastelloy Products, Zirconium Products, Tantalum 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 × 7 countries)
- 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 apparatus (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