

High-Temperature Valve

*Pioneering the advancement of high-temperature fluid control:
Fujikin's all-metal actuator and diaphragm valve for 300°C service.*

All Metal Actuator

The high-temperature actuator is made entirely of stainless steel 316. Moving parts are permanently-coated with an extremely reliable lubricant to ensure years of smooth operation.

Finelock F900 Fitting

The Fujikin Finelock F900 fitting is one of the most reliable in the market. It is welded directly onto the actuator, and ensures a durable, trouble-free supply-air connection.

Bellows-Type Actuation

All-stainless actuation bellows are highly elastic and extremely dependable. Spring force returns the valve to the closed position.

Stringent Leakage Standards

Seat and external leakage successfully test at 5×10^{-11} acc/sec – which is two orders of magnitude tighter than industry standards.

UJR End-Connections

UJR end-connections are highly robust and compatible with VCR[®]-type conventional fittings as well. This allows installation of the high-temperature valve in both existing and new gas lines without costly modifications.

Fujikin Mega-M Valve

All-stainless steel 316L body metal-seated valve with nickel-alloy direct diaphragm is available in 1/4" and 3/8" sizes.

Ultra-Smooth Internal Finish

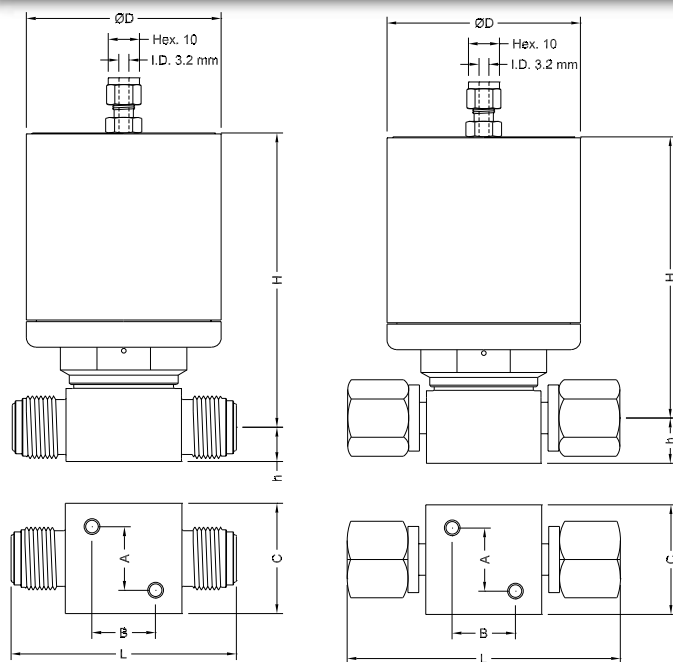
The valve internal surface finish is 5 Ra maximum as standard, allowing the high-temperature valve to be utilized in a multitude of services.



Specifications and Technical Data

Operating Temperature	-10°C ~ 300°C	14°F ~ 572°F
Pressure Rating	1 MPa	145 psi
Design Pressure	1 MPa	145 psi
External Leakage	5x10 ⁻¹⁰ Pa·m ³ /sec	5x10 ⁻⁹ acc/sec (100% sample testing)
Seat Leakage	5x10 ⁻¹⁰ Pa·m ³ /sec	5x10 ⁻⁹ acc/sec (100% sample testing)
Actuation Pressure	0.39 ~ 0.59 MPa	56 ~ 85 psi
Surface Roughness	0.7 µm max	5 Ra max
Particles	Less than 0.1 particles per cycle, 0.1 µm particle size	
Ion Contaminants	10 ng/cm ² max for NO ₃ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻ , Na ⁺ , K ⁺	
Available Sizes	1/4" (Cv-0.25) and 3/8", 1/2" (Cv-0.7)	
Connection	UJR-type metal gasket fittings	
Body	SS 316L double-melt	
Diaphragm	Nickel-cobalt alloy	
Stem	SS 316	
Bonnet	SS 316	
Actuator	SS 316	

Dimensional Information



FWBR-71-6.35
FWBR-71-9.52

FWBR-71-6.35-2
FWBR-71-9.52-2

Model Number	L	h	H	ØD	A	B	C
FWBR-71-6.35	57	14.3	69.5	52	18	18	26
FWBR-71-9.52	76.2	11.1	94.3	62	20.2	20.2	35
FWBR-71-6.35-2	70.6	14.3	53.0	40	18	18	26
FWBR-71-9.52-2	83	12.7	60.8	40	20.2	20.2	35

All dimensions in millimeters

Fujikin

Fujikin Headquarters
Kita-Hankyu Building
1-4-8 Shibata, Kita-ku
Osaka, 530
Japan
Tel 066-372-7141
Fax 066-375-0697

Fujikin Deutschland
Leopold Straße 9
D-40211 Düsseldorf
Germany
Tel 49-211-350-458
Fax 49-211-363-990

Fujikin of America, Inc.
4677 Old Ironsides Dr
Suite 100
Santa Clara, CA 95054
Tel 408-980-8269
Fax 408-980-0572

Fujikin of America, Inc.
2028 E Ben White Blvd
Suite 320
Austin, TX 78741
Tel 512-912-9095
Fax 512-912-8095

Fujikin of America, Inc.
4 Alsan Way
Little Ferry, NJ 07643
Tel 201-641-1119
Fax 201-641-1137

Fujikin of America, Inc.
121 SW Salmon Street
Suite 1100
Portland, OR 97204
Tel 503-471-1340
Fax 503-471-1341

Fulintec
6F-3, No. 333
Kwan-Fu Road
Section 1
Hsin-Chu
Taiwan
Tel 886-35-795-706
Fax 886-35-795-708

VCR® is a registered trademark of The Swagelok Company