All-Metal Micrometer Metering Valves

Mega-M LV



FUJIKIN

End-Connections

Available in UJR (VCR® compatible), UPG, and IGS surface-mount. This allows for flexible installation in new gas lines as well as in existing lines without costly modifications.

Ultra-Smooth Internal Finish

All internal surfaces undergo a UP Treatment as standard, resulting in a surface finish of 2 Ra average, 5 Ra maximum.

Minimal Internal Volume

1.38 cc total internal volume for the male UJR version ensures excellent gas displacement characteristics. This is 21/4 times less than the internal volume of competitive valves!

Micrometer Precision

By combining a short-stroke valve with the extremely-precise positioning capabilities of a micrometer, we are able to offer a valve with an unprecedented level of metering accuracy.

Alloy Diaphragm

Nickel-cobalt alloy diaphragm minimizes particle generation, and provides a durable shut-off surface against the seat.

Metal Seat

All wetted surfaces are metallic by utilizing a metal seat, thereby enhancing tool performance, providing superior shut-off, and minimizing particle generation.

Stringent Leakage Standards

Seat and external leakage successfully test at 5x10⁻¹¹ acc/sec - which is two orders of magnitude tighter than industry standards.

ations
99
a average, 5 Ra maximum
er 1,000 cycles
2

Materials of C	s of Construction Body SS 316L			
Body	SS 316L			
Diaphragm	Nickel-cobalt alloy			
Standard Seat	Metal			
Handle	Aluminum Alloy			

operating spe	GiiiGa
Max Operating Pressure	145 p
Min Operating Pressure	Vacuu
Temperature Range	14 °F

Operating Specifications

osi (1 MPa) um

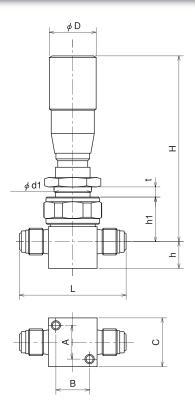
~ 302 °F (-10 °C ~ 150 °C)

Functional Performance

Maximum Cv	0.20 (4.5 mm orifice) 0.03 (1.0 mm orifice)
Leakage Across Seat (Design)	1 x 10 ⁻¹⁰ scc/sec He
Leakage Across Seat (Tested)	< 5 x 10 ⁻¹¹ scc/sec He
Inboard Leakage (Design)	2 x 10 ⁻¹⁰ scc/sec He
Inboard Leakage (Tested)	< 5 x 10 ⁻¹¹ scc/sec He

Safety and Clean Technolog

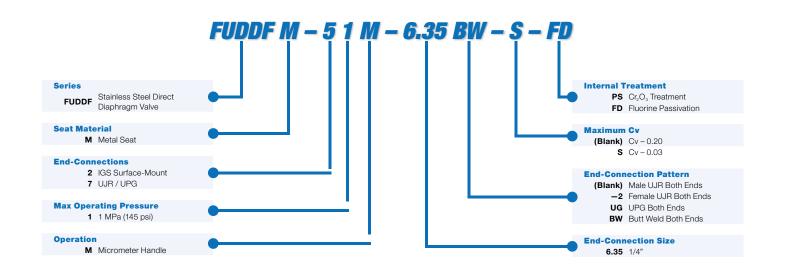
Dimensions



Part Number	ØD	L	H	h	t	h1	Ød1	A	B	G
FUDDFM-71M-6.35	25	57.0	105	14.3	5.5	23.8	16.5	18	18	26
FUDDFM-71M-6.35-2	25	70.6	105	14.3	505	23.8	16.5	18	18	26
FUDDFM-71M-6.35UG	25	46.0	105	14.3	505	23.8	16.5	18	18	26
FUDDFM-71M-6.35UG-2	25	71.0	105	14.3	5.5	23.8	16.5	18	18	26

All dimensions in millimeters.

Part Number Designation



Fujikin

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