

NEW

FINE series PURE

# NEW MEGA series



FPR-NSD-721-6.35-316LP

FPR-ND-71-6.35

FUND-71G-6.35

*Safety & Clean Technology*

**Fujikin** Incorporated

# NEW MEGA-ONE® LM

## New Low-pressure Manual Valve

The NEW MEGA-ONE® LM offers manual operation for ultra-pure, flammable, or toxic fluid lines in semiconductor manufacturing equipment and facilities.

Direct diaphragm construction makes the NEW MEGA-ONE® LM an industry standard valve with superior sealing performance, remarkable durability, compactness, and particle- and dead-space-free performance.

This valve has the same performance as the MEGA-ONE® LM, but is more compact and durable.

● **Efficient and compact**

Other handle colors are available.

Valve open or closed position is easily visible at a glance.

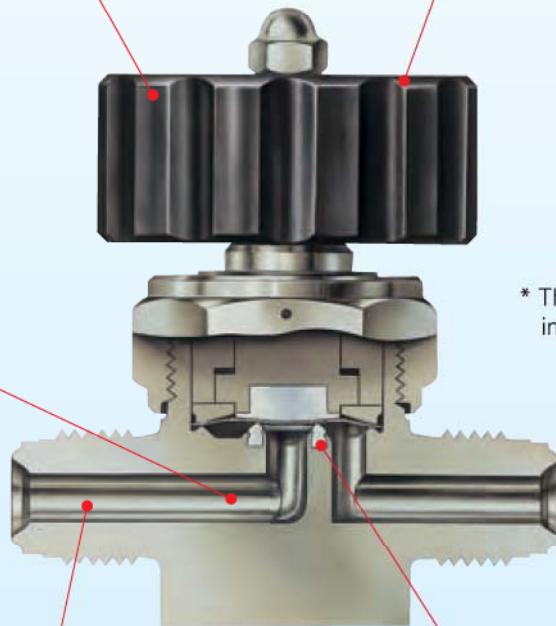


Open

Closed

Excellent gas displacement characteristics.  
(1.48cc total volume for the male UJR version.)

\* The panel nut has been eliminated in this simplified, compact design.



EP treatment is standard for all wetted surfaces.  
UP treatment is optional.

Standard seat material is PCTFE.  
Polyimide/PFA seat material is also available.



## Specifications and Materials

Specifications	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv* (with N <sub>2</sub> gas at 20°C)	End Connection
	6.35	1 MPa	-10 to 80°C	0.3	UJR, UPG, F900, tube stub
	9.52 & 12.7			0.65	

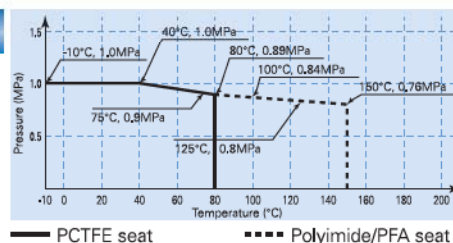
● Theoretical leak rate: External leak:  $< 5 \times 10^{-12}$  Pa·m<sup>3</sup>/sec. Seat leak:  $< 5 \times 10^{-12}$  Pa·m<sup>3</sup>/sec  
 ● Tested leak rate: External leak:  $< 5 \times 10^{-10}$  Pa·m<sup>3</sup>/sec. Seat leak:  $< 5 \times 10^{-10}$  Pa·m<sup>3</sup>/sec  
 \* Depends on the configuration of the body.

● All valves are helium leak tested.  
 ● Durability of over 100,000 cycles under test conditions.

Materials	Part	Material
	Body*	SUS316L
	Diaphragm	Nickel-cobalt alloy
	Seat Packing	PCTFE (standard)
	Handle	ADC12

\* Materials other than SUS316L double-melt are also available. Consult with Fujikin for use outside the specification range.

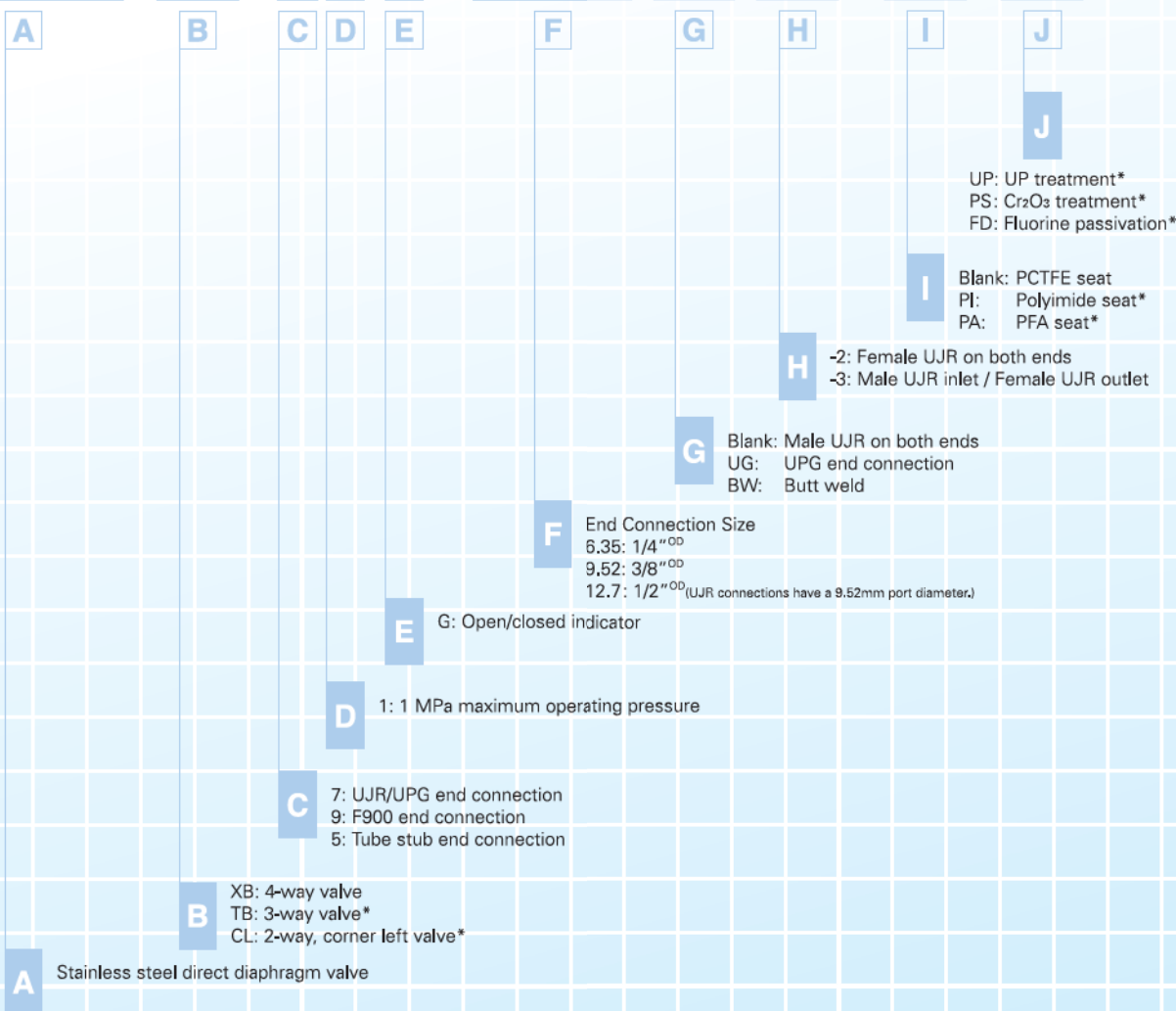
### Temperature/Pressure Rating



## Part Number Designation

Please use the part number designations below when placing an order.

FUND   -71G -6.35               



\* Optional or made-to-order.

Actual shipped items 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

\* For the most up-to-date product information, visit Fujikin's website (<http://www.fujikin.co.jp/>).

Figure 1

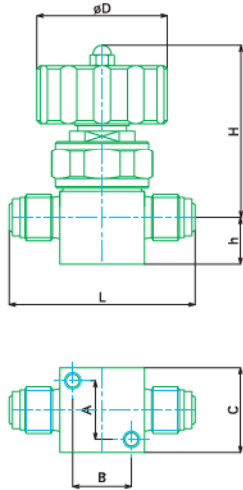


Figure 2

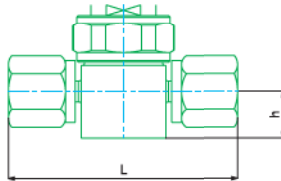


Figure 3

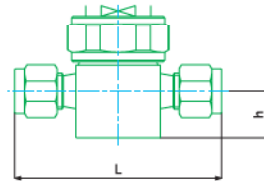


Figure 4

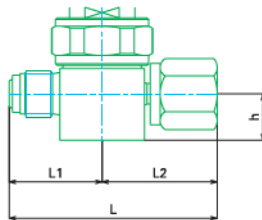


Figure 5

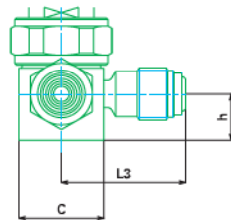
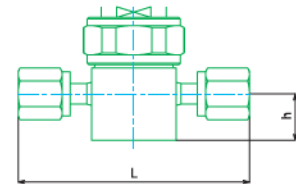


Figure 6



(Units: mm)

Part Number	Figure	L	L1	L2	L3	h	H	D	A	B	C
FUND-71G-6.35	1	57				14.3	53	40	18	18	26
FUND-71G-6.35-2	2	70.6				14.3	53	40	18	18	26
FUND-71G-9.52	1	76.2				11.1	60.8	40	20.2	20.2	35
FUND-71G-9.52-2	2	83				12.7	60.8	40	20.2	20.2	35
FUNDTB-71G-6.35	4	65.7	31	34.7	38.1	14.3	54	40	18	18	26
FUNDTB-71G-9.52	4	79.2	37.7	41.5	43.1	12.7	60.8	40	20.2	20.2	35
FUNDTB-71G-9.52×6.35	4	69.9	31.8	38.1	38.1	12.7	60.8	40	18	18	26
FUND-91G-6.35	3	63.5				14.3	53	40	18	18	26
FUND-91G-9.52	3	80				12.7	60.8	40	20.2	20.2	35
FUND-91G-12.7	3	85				12.7	60.8	40	20.2	20.2	35
FUND-71G-6.35UG	5	46				14.3	53	40	18	18	26
FUND-71G-6.35UG-2	6	71				14.3	53	40	18	18	26
FUND-71G-9.52UG	5	57				11.1	60.8	40	20.2	20.2	35
FUND-71G-9.52UG-2	6	86				12.7	60.8	40	20.2	20.2	35
FUND-71G-12.7UG	5	61				11.1	60.8	40	20.2	20.2	35
FUND-71G-12.7UG-2	6	92				12.7	60.8	40	20.2	20.2	35

\* See Figure 1 for dimension keys not shown in other figures.