FINE series PURE Bellows Metal Diaphragm Series



Safety & Clean Technology



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BELLOWS-METAL DIAPHRAGM series

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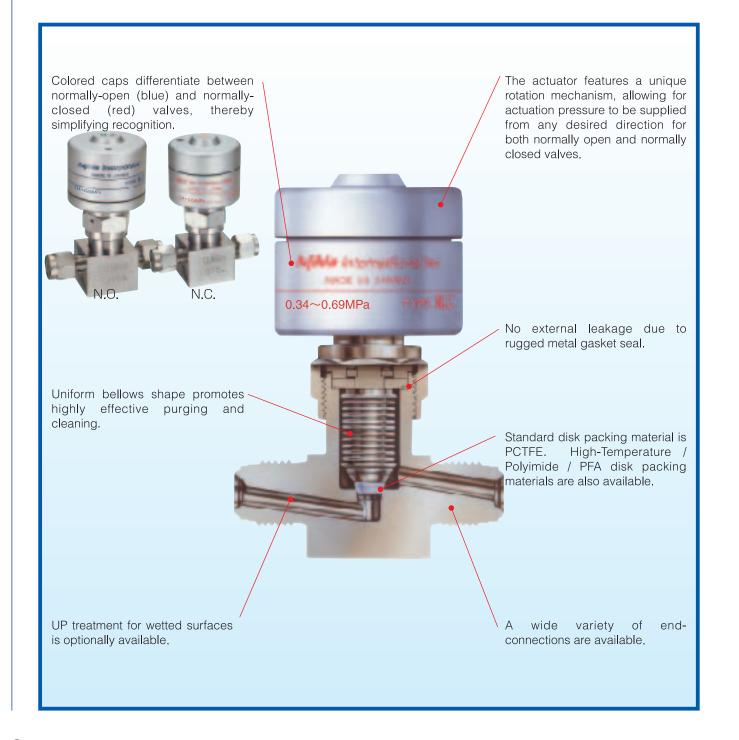


Pneumatically-Actuated Bellows Valves

Stainless Steel 1MPa

The Fujikin pneumatically-actuated bellows valve is a compact valve designed for ultra-pure, flammable, or toxic fluid lines for all types of semiconductor equipment and facilities.

The Fujikin bellows valve is the most successful valve in the semiconductor industry due to its superior sealing performance, remarkable durability, compactness, ease of cleaning, and excellent purge characteristics.



SPECIFICATIONS

Specification	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv	Actuation Pressure	Actuator Port	End-Connections	Actuation Type
	6.35 (1/4")	41.40	4000.00	0.3	0.04 0.0014D		F900	N II OI I (NO)
	9.52 (3/8")	1MPa 145 psi			0.34~0.69MPa 48~70 psi	Rc 1/8"	UJR	Normally Closed (NC) Normally Open (NO)
	12.7 (1/2")	17 170 1	0.0	10 70 psi		Tube Stub	rtomany open (110)	

●All valves are helium leak tested. Vacuum method/results: External leakage: < 5x10⁻¹² Pa•m³/sec. Seat leakage: < 5x10⁻¹² Pa•m³/sec •Demonstrated superior durability - over 5 million cycles (actual test results)

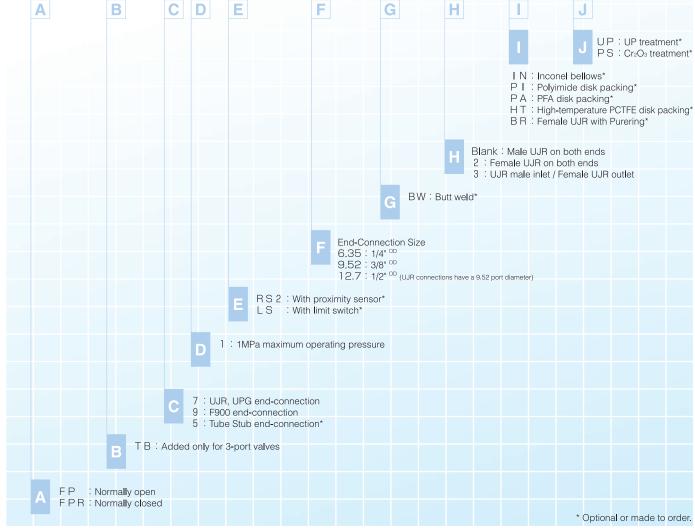
Materials	Part	Material	Temperature/Pressure Rating	1.5			
	Body	SUS316L		(MPa)		+	-
	Bellows	SUS316L		Pressure (
	Disk Packing	PCTFE		ď			1
	Actuator	A5056		-	10 0	20	40
					- PC1	(FF C)isk

PART NUMBER DESIGNATION

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

100℃, 1.0MPa

FPR-[]]-71[]-6.35[]-[]-[



Pneumatically-Actuated Bellows Valves

DIMENSIONS

Figure 1

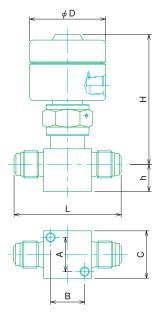


Figure 2

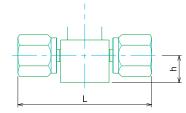


Figure 3

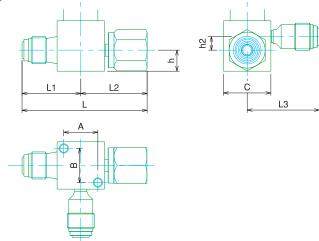
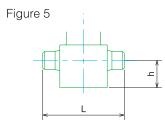


Figure 4



											(Unit	: mm)
Part Number	Figure	D	L	Н	h	Α	В	С	Ll	L2	L3	h2
FP(R)-71-6.35	1	40	57.1	68.4	14.3	18	18	25				
FP(R)-71-6.35-2	2	40	70.6	68.4	14.3	18	18	25				
FP(R)-71-9.52	1	40	76.2	72.9	11.1	20.2	20.2	28				
FP(R)-71-9.52-2	2	40	83	72.9	12.7	20.2	20.2	28				
FP(R)-TB-71-6.35	3	40	65.7	74.7	11.1	18	18	25	31	34.7	38.1	7.1
FP(R)-TB-71-9.52×6.35	3	40	69.9	74.7	11.1	18	18	25	31.8	38.1	38.1	7.1
FP(R)-51-6.35	5	40	42.9	67.9	17.3	18	18	25				
FP(R)-51-9.52	5	40	57.1	72.9	12.7	20.2	20.2	28				
FP(R)-51-12.7	5	40	57.1	27.9	12.7	20.2	20.2	28				
FP(R)-91-6.35	4	40	63.5	68.4	14.3	18	18	25				
FP(R)-91-9.52	4	40	80	72.9	12.7	20.2	20.2	28				
FP(R)-91-12.7	4	40	85	62.9	12.7	20.2	20.2	28				

See Figure 1 for dimension keys not shown in other Figures.

OPTIONS

Block Valve

FBL-9.52×6.35-2B3

Block valve design allows for

- Compact tubing arrangement
- Dead-space free configuration

In addition to our standard 2-actuator, 3-port block, we also offer custom block valves according to customer's specifications.





FPR-71RS2-6.35

Proximity Sensor

An electrical signal confirms open or closed position of valve. The non-contact proximity sensor offers unsurpassed safety.

Limit Switch

FPR-71LS-6.35

An electrical signal confirms open or closed position of





FBT-70-6.35-3B4-BR-EAJ

Multi-Mini

Smaller size actuator (Ø30 mm) makes it easy to create even more compact block valve configurations.

Other

Angle-type and 3/4" OD (Ø19.05 mm connection size) size can be made according to customer specifications.





Photos are samples of each product type.

Pneumatically-Actuated Bellows Valves

Pneumatically-Actuated High Pressure Bellows Valve

Stainless Steel 16.2 MPa

The Fujikin pneumatically-actuated high-pressure bellows valve is a compact valve designed for ultra-pure, flammable, or toxic fluid lines for all types of semiconductor equipment and facilities.

The Fujikin bellows valve is the most successful valve in the semiconductor industry due to its superior sealing performance, remarkable durability, compactness, ease of cleaning, and excellent purge characteristics.



SPECIFICATIONS

Specification Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv	Actuation Pressure	Actuator Port	End-Connections	Actuation Type
6.35 (1/4") 9.52 (3/8")	2.250 pci	−10~80 °C 14~176 °F	0.3	0.39~0.59MPa 56~85 psi	RC 1/8"	F900 UJR Tube Stub	Normally Closed (NC) Normally Open (NO)

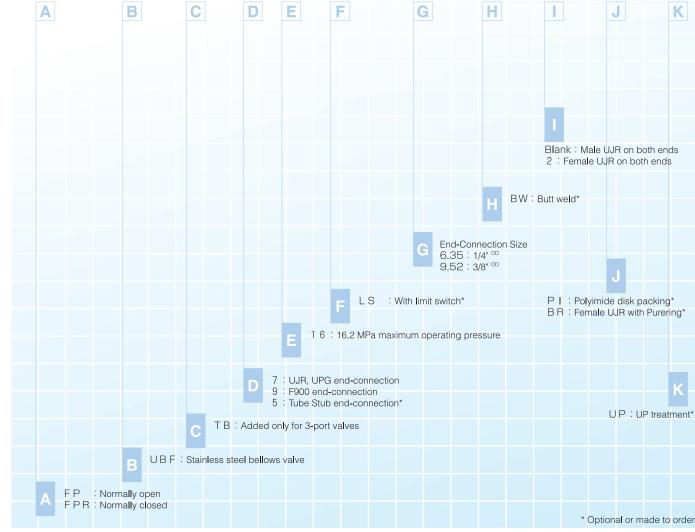
●All valves are helium leak tested. Vacuum method/results: External leakage: < 5x10⁻¹² Pa•m³/sec. Seat leakage: < 5x10⁻¹² Pa•m³/sec Demonstrated superior durability - over 400,000 cycles (actual test results).

terials	Part	Material	Temperature/Pressure Rating	20.0
	Body	SUS316L		(MPa)
	Bellows	Inconel 718		5.0
	Disk Packing	PCTFE		₫ 5.0
	Actuator	A5056		-10 0 20

PART NUMBER DESIGNATION

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

FPR-UBF[]]-716[]-6.35[]-[]





DIMENSIONS

Figure 1

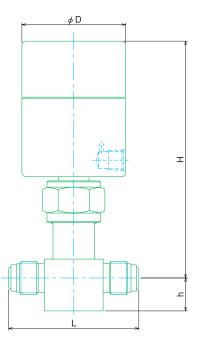


Figure 3 Figure 2

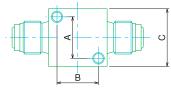


Figure 4

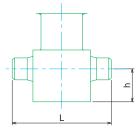
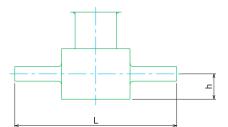


Figure 5



(Unit:mm)								
Part Number	Figure	D	L	Н	h	А	В	С
FP(R)-UBF-716-6.35	1	50	58.7	115(122)	11.1	18	18	25
FP(R)-UBF-716-9.52	2	50	70.6	115(122)	11.1	18	18	25
FP(R)-UBF-716-6.35-2	1	50	76.2	115(122)	11.1	18	18	25
FP(R)-UBF-716-9.52-2	2	50	83	115(122)	11.1	18	18	25
FP(R)-UBF-516-6.35	4	50	44.5	115(122)	11.1	18	18	25
FP(R)-UBF-516-6.35BW	5	50	71	115(122)	11.1	18	18	25
FP(R)-UBF-916-6.35	3	50	63.5	115(122)	11.1	18	18	25
FP(R)-UBF-916-9.52	3	50	66	115(122)	11.1	18	18	25
/ \ Decelete in disease diseases in		11 1		0 - 5 - 4 (- 1				

() Brackets indicate dimensions for normally-closed valves. See Figure 1 for dimension keys not shown in other Figures.

OPTIONS

Limit Switch

FPR-UBF-716LS-6.35

An electrical signal confirms open or closed position of





Third-Party Certifications

Valves may be tested and certified by a third-party testing agency to verify conformance to published standards, such as high-pressure gas service specifications, and so on. Contact Fujikin for further details.

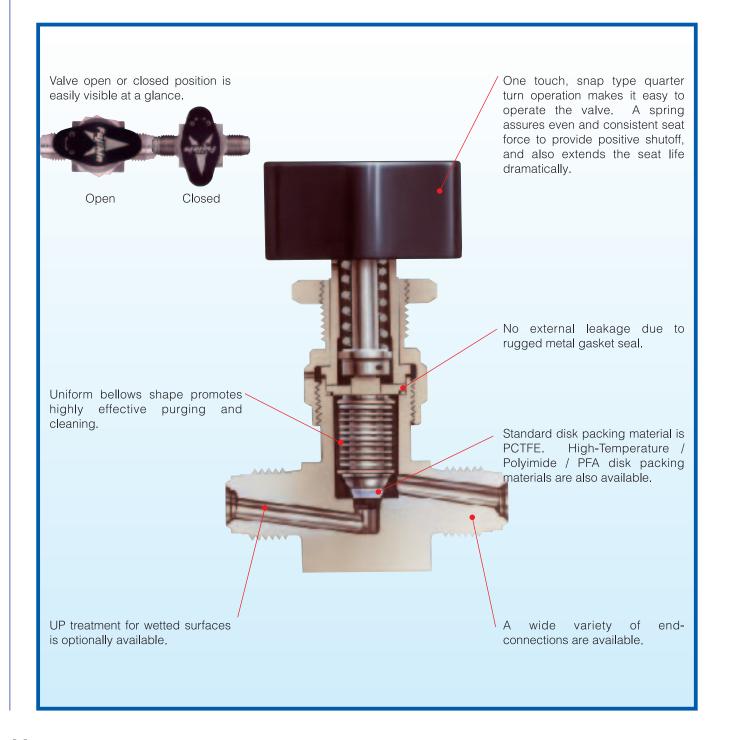


Switch Bellows® (Quarter Turn Switch Type)

Stainless Steel 1MPa

The Fujikin Switch Bellows® valve is a compact valve designed for ultra-pure, flammable, or toxic fluid lines for all types of semiconductor equipment and facilities.

The Fujikin Switch Bellows® valve is the most successful valve in the semiconductor industry due to its superior sealing performance, remarkable durability, compactness, ease of cleaning, and excellent purge characteristics.



SPECIFICATIONS

Specification	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv	End-Connections
	6.35 (1/4")	41.45	40.00.00	0.3	F900
	9.52 (3/8")	1MPa 145 psi	-10~80 °C 14~176 °F	0.8	UJR
	12.7 (1/2")	140 psi	14: - 170 1	0.0	Tube Stub

●All valves are helium leak tested. Vacuum method/results: External leakage: < 5x10⁻¹² Pa•m³/sec. Seat leakage: < 5x10⁻¹² Pa•m³/sec • Demonstrated superior durablilty - over 20,000 cycles (actual test results)

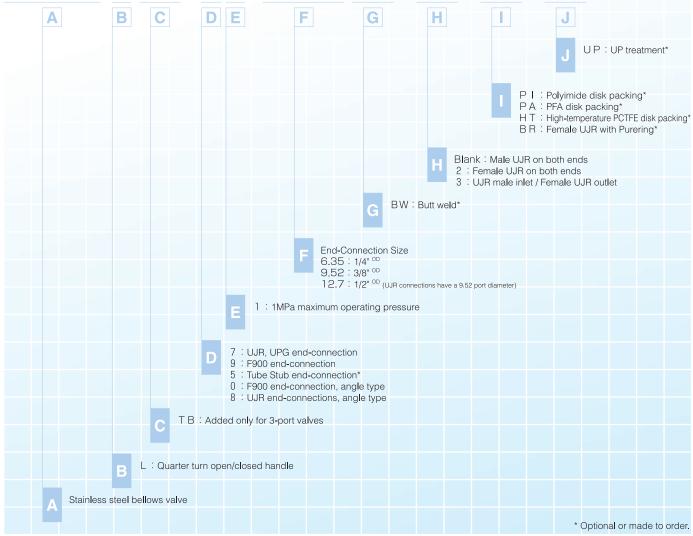
Materials	Part	Material	Temperature/Pressure Rating	1.5	100
	Body	SUS316L		(MPa)	
	Bellows	SUS316L		9. 0.5	
	Disk Packing	PCTFE		ğ	
	Handle	Nylon 6		-10 0 20 40 60 80 Temp	0 100 12 perature (°C)
				PCTFE Disk Packing	

PART NUMBER DESIGNATION

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

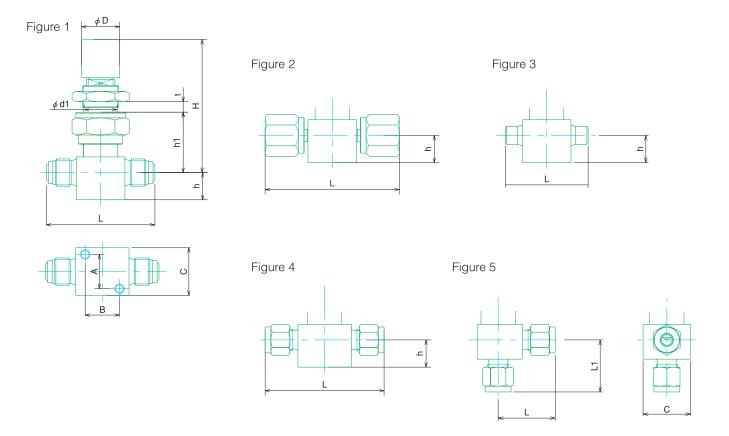
Switch Bellows® Valves

FUBF L[]]-71-6.35[]-[]-[]





DIMENSIONS



											(Unit	:mm)
Part Number	Figure	D	L	Н	h	t	h1	d1	А	В	С	L1
FUBFL-71-6.35	1	20	57.1	71.5	14.3	8.5	31.5	19.5	18	18	25	
FUBFL-71-6.35-2	2	20	70.6	71.5	14.3	8.5	31.5	19.5	18	18	25	
FUBFL-71-9.52	1	20	76.2	76.3	11.1	8.5	36	19.5	20.2	20.2	28	
FUBFL-71-9.52-2	2	20	83	76.3	12.7	8.5	36	19.5	20.2	20.2	28	
FUBFL-51-6.35	3	20	42.9	71.5	14.3	8.5	31.5	19.5	18	18	25	
FUBFL-51-9.52	3	20	57.1	76.3	12.7	8.5	36	19.5	20.2	20.2	28	
FUBFL-51-12.7	3	20	57.1	76.3	12.7	8.5	36	19.5	20.2	20.2	28	
FUBFL-91-6.35	4	20	63.5	71.5	14.3	8.5	31.5	19.5	18	18	25	
FUBFL-91-9.52	4	20	80	76.3	12.7	8.5	36	19.5	20.2	20.2	28	
FUBFL-91-12.7	4	20	85	76.3	12.7	8.5	36	19.5	20.2	20.2	28	
FUBFL-01-6.35	5	20	32	71.5		8.5	31.5	19.5			25	32
FUBFL-01-9.52	5	20	40	76.3		8.5	36	19.5			28	40
FUBFL-01-12.7	5	20	42.5	76.3		8.5	36	19.5			28	42.5

OPTIONS

Handle Colors

GT-HL-FUBFL-*

A letter in place of "*" indicates handle color: Blue=B, Green=G, Yellow=Y, Red=R











FUBFL-81-6.35

Other

Angle-type can be made according to customer specifications.

Photos are samples of each product type.

15

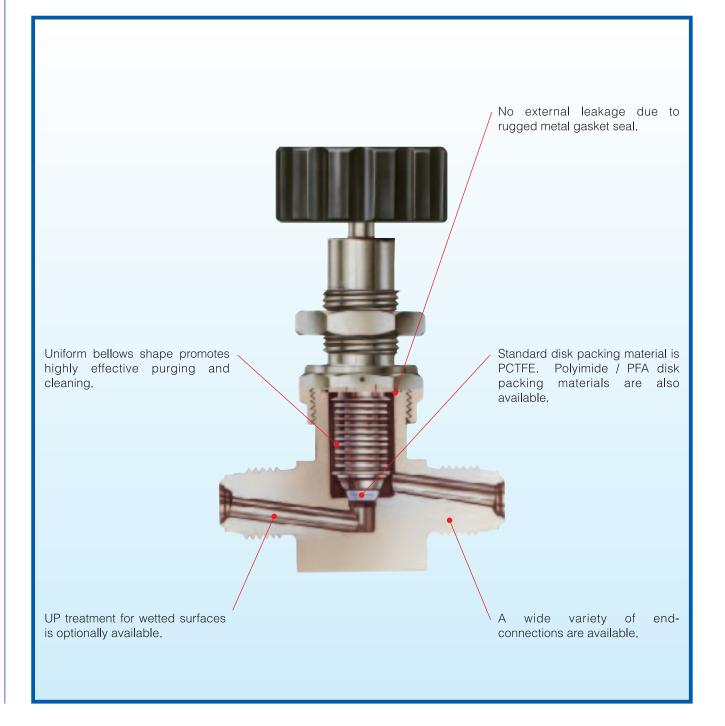


Round Handle Bellows Valve

Stainless Steel 1MPa

The Fujikin Round Handle Bellows valve is a compact valve designed for ultra-pure, flammable, or toxic fluid lines for all types of semiconductor equipment and facilities.

The Fujikin Round Handle Bellows valve is the most successful valve in the semiconductor industry due to its superior sealing performance, remarkable durability, compactness, ease of cleaning, and excellent purge characteristics.



SPECIFICATIONS

Specification	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv	End-Connections
	6.35 (1/4")	41.45	40.00.00	0.3	F900
	9.52 (3/8")	1MPa 145 psi	-10~80 °C 14~176 °F	0.8	UJR
	12.7 (1/2")	140 psi	14: - 170 1	8.0	Tube Stub

●All valves are helium leak tested. Vacuum method/results: External leakage: < 5x10⁻¹² Pa·m³/sec. Seat leakage: < 5x10⁻¹² Pa·m³/sec. Demonstrated superior durablilty - over 20,000 cycles (actual test results).

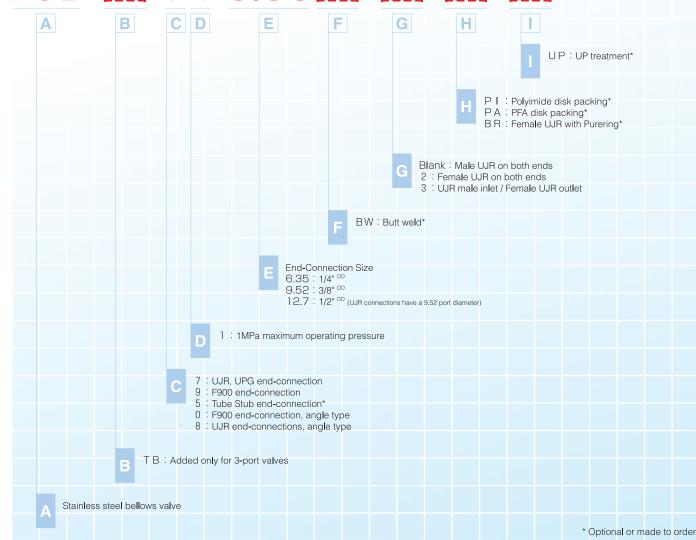
aterials	Part	Material	Temperature/Pressure Rating	1.5
	Body	SUS316L		0.1 (MPa)
	Bellows	SUS316L		Pressure (MPa)
	Disk Packing	PCTFE		ď.
	Handle	A5056		-1

PART NUMBER DESIGNATION

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

Round Handle Bellows Valves





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



Round Handle Bellows Valves

DIMENSIONS

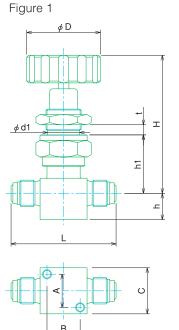
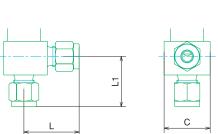


Figure 2

Figure 3

Figure 4 Figure 5



											(Unit	: mm)
Part Number	Figure	D	L	Н	h	t	h1	d1	Α	В	С	L1
FUB-71-6.35	1	40	57.1	78.5	14.3	9.5	31.5	19.5	18	18	25	
FUB-71-6.35-2	2	40	70.6	78.5	14.3	9.5	31.5	19.5	18	18	25	
FUB-71-9.52	1	40	76.2	83	11.1	9.5	36	19.5	20.2	20.2	28	
FUB-71-9.52-2	2	40	83	83	12.7	9.5	35	19.5	20.2	20.2	28	
FUB-81-6.35	3	40	28.5	78.5		9.5	31.5	19.5			25	25.8
FUB-81-9.52	3	40	38.1	84		9.5	37	19.5			28	35
FUB-91-6.35	4	40	63.5	78.5	14.3	9.5	31.5	19.5	18	18	25	
FUB-91-9.52	4	40	80	83	12.7	9.5	36	19.5	20.2	20.2	28	
FUB-91-12.7	4	40	85	83	12.7	9.5	36	19.5	20.2	20.2	28	
FUB-01-6.35	5	40	32	78.5		9.5	31.5	19.5			25	32
FUB-01-9.52	5	40	40	83		9.5	36	19.5			28	40
FUB-01-12.7	5	40	42.5	83		9.5	36	19.5			28	42.5

See Figure 1 for dimension keys not shown in other Figures.

OPTIONS

Other

Angle-type and 3/4" OD (Ø19.05 mm connection size) size can be made according to customer specifications.



FUB-91-19.05





Needle Bellows Valve

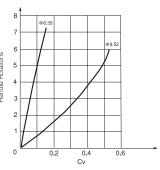
Stainless Steel 1 MPa

The Fujikin Needle Bellows valve is a compact valve designed for ultra-pure, flammable, or toxic fluid lines for all types of semiconductor equipment and facilities.

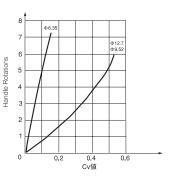
The Fujikin Needle Bellows valve is the most successful valve in the semiconductor industry due to its superior sealing performance, remarkable durability, compactness, ease of cleaning, and excellent purge characteristics.

Rough Needle Valve



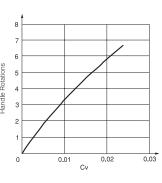




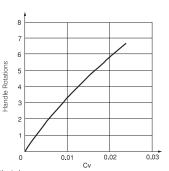


Flow Control Needle Valve with Micrometer









UP Treatment is optionally available.

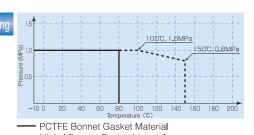
SPECIFICATIONS

Specification	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Orifice Diameter	Maximum Cv	End-Connections
	6.35 (1/4")			5	0.132	
		1MPa	-10~80 °C	1.8	0.02	F900
	9.52 (3/8")	145 psi	14∼176 °F	8	0.452	UJR
	12.7 (1/2")			0	0.432	

●All valves are helium leak tested. Vacuum method/results: External leakage: < 5x10⁻¹² Pa·m³/sec.

Materials	
	D

Part	Material					
Body	SUS316L					
Bellows	SUS316L					
Bonnet Gasket*	PCTFE					
Handle	A5056					

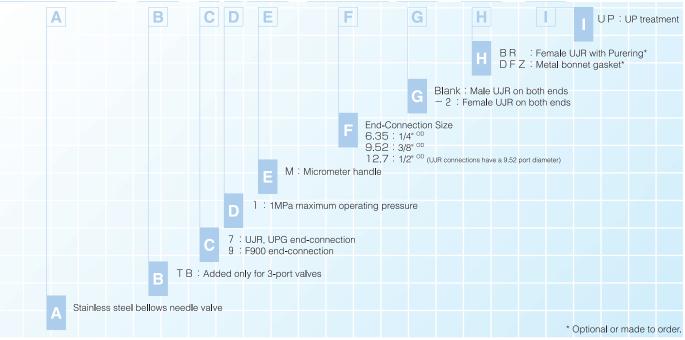


*Metal seal is optionally available. ---- Nickel Bonnet Gasket Material

Needle Bellows Valve

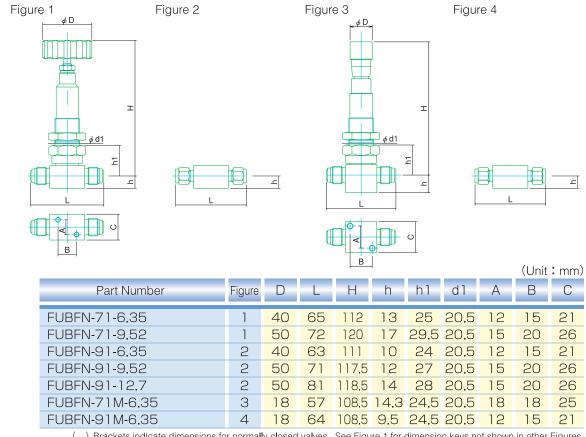
PART NUMBER DESIGNATION

FUBFN-[]]-71[]-6.35[



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



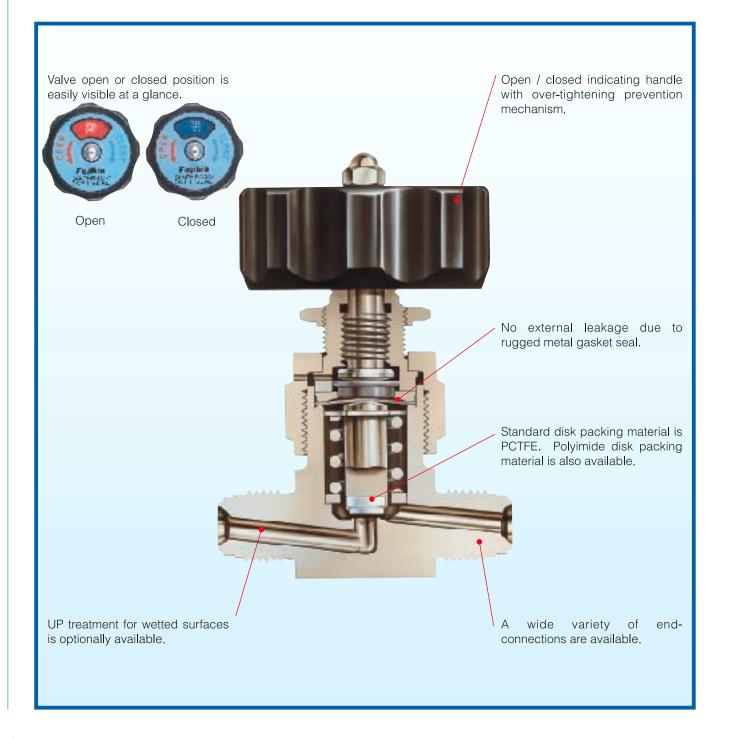
() Brackets indicate dimensions for normally closed valves. See Figure 1 for dimension keys not shown in other Figures

Metal Diaphragm Bellows Valve

Stainless Steel 16.2 MPa

The Fujikin metal diaphragm bellows valve is a compact valve designed for ultra-pure, flammable, or toxic fluid lines for all types of semiconductor equipment and facilities.

The Fujikin metal diaphragm bellows valve offers superior sealing performance, remarkable durability, and compactness.



SPECIFICATIONS

Specification	Nominal Maximum Operating F Diameter Pressure		Fluid Temperature Range	Maximum Cv	End-Connections		
	6.35 (1/4")	10.0045	10 00 00		F900		
	9.52 (3/8")	16.2MPa 2,350 psi	−10~80 °C 14~176 °F	0.3	UJR		
	12.7 (1/2")	2,000 psi	14 170 1		Tube Stub		

◆All valves are helium leak tested. Vacuum method/results: External leakage: < 5x10⁻¹² Pa•m³/sec. Seat leakage: < 5x10⁻¹² Pa•m³/sec Demonstrated superior durablilty - over 9,000 cycles (actual test results).

*The differential pressure between the inlet and outlet should be less than 10.3 MPA (1,500 psid). If the differential pressure exceeds this value, a valve with a higher rating must be specified.

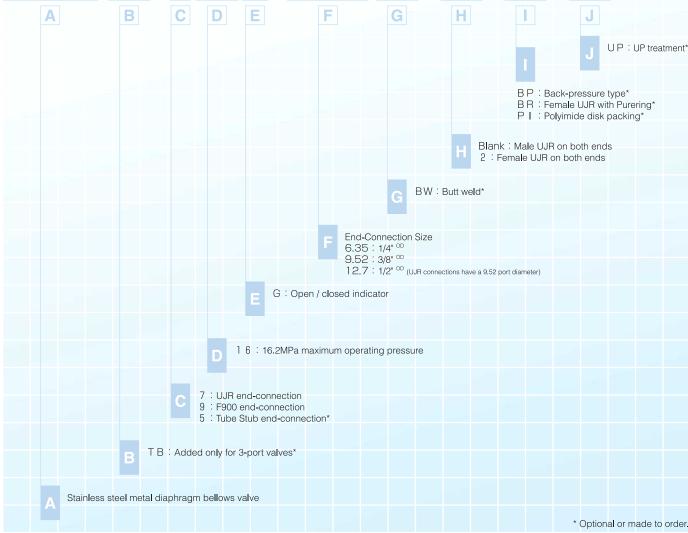
Materials	Part	Material	Temperature/Pressure Rating	20.0			 10	o°c. 1	16.2MPa		
	Body	SUS316L		0.01e (MPa)		+	 f			50°C(14	4.3MPa
	Diaphragm	Inconel 718		essur		TIT			711		
	Stem	SUS316L		£ 5.0			 				
	Disk Packing	PCTFE		-1	0 0	20 40	30 100 1	20	140 160	0 180	200
	Spring	SUS316WPB			PCT	E Disk I			imide / PF	A Disk F	² acking

PART NUMBER DESIGNATION

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

Metal Diaphragm Bellows Valves

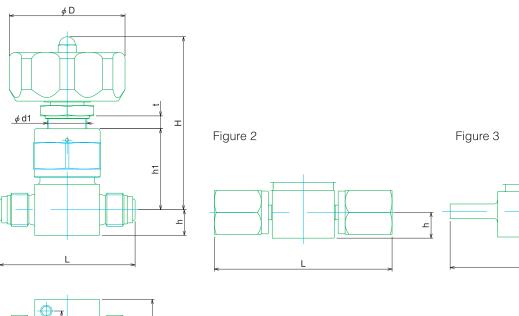
FUDF[]]-716G-6.35[]-[]-[]





DIMENSIONS

Figure 1



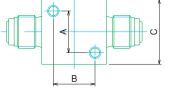


Figure 4

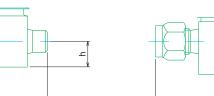
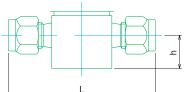


Figure 5



(L	Jnit	:	mm)

										(011	11 • 1111117
Part Number	Figure	D	L	Н	h	t	h1	d1	А	В	С
FUDF-716G-6.35	1	50	58.7	75.3	11.1	5	35	19.5	18	18	28
FUDF-716G-6.35-2	2	50	70.6	78.8	11.1	5	35	19.5	18	18	28
FUDF-716G-9.52	1	50	76.2	76.3	11.1	5	36	19.5	18	18	28
FUDF-716G-952-2	2	50	83	78.8	11.1	5	36	19.5	18	18	28
FUDF-516G-6.35	4	50	44.5	75.3	11.1	5	35	19.5	18	18	28
FUDF-516G-9.52	4	50	46	75.3	11.1	5	36	19.5	18	18	28
FUDF-516G-6.35BW	3	50	74	78.8	11.1	5	35	19.5	18	18	28
FUDF-516G-9.52BW	3	50	74	78.8	11.1	5	36	19.5	18	18	28
FUDF-516G-12.7BW	3	50	74	78.8	11.1	5	36	19.5	18	18	28
FUDF-916G-6.35	5	50	63.5	75.3	11.1	5	35	19.5	18	18	28
FUDF-916G-9.52	5	50	66	75.3	11.1	5	36	19.5	18	18	28
FUDF-916G-12.7	5	50	73	75.3	11.1	5	36	19.5	18	18	28

See Figure 1 for dimension keys not shown in other Figures.

OPTIONS

Handle Colors

GT-HL-FUDF-*

A letter in place of " * " indicates handle color: Blue=B, Green=G, Yellow=Y, Red=R











FUDF-716G-6.35-BP

Back Pressure Type (High Pressure)

If the back pressure is over 10.3 MPa (1,500 psi), standard valves may not be able to open successfully. Therefore under high back pressure conditions, a stronger internal spring is installed to ensure proper valve operation.

Third-Party Certifications

Valves may be tested and certified by a third-party testing agency to verify conformance to published standards, such as high-pressure gas service specifications, and so on. Contact Fujikin for further details.





FUDF-725-6.35-HP(24.5MPa type) Ultra-High Pressure

Valves able to handle even higher pressures (3,500 psi) than our standard series are optionally available by contacting Fujikin.

Photos are samples of each product type.



ADDITIONAL INFORMATION

●Inner Surface Treatment

Products with ULTRA EXTREME PURE (UP) Special Internal Treatment

By utilizing a special polishing technology to first remove work-affected and work-hardened layers from the metal surfaces, UP treated products attain an exceedingly pure metal surface having an extremely uniform passivated film. The surface roughness is kept below 0.7 mm Ry, with an average roughness being 0.1mm or less. Additionally, final cleaning is performed in a Class 1 cleanroom to completely remove particles and impurities, and to assure a thoroughly clean product.

The UP treatment is compatible with Hastelloy(R) and other corrosion resistant materials.

Disk Packing Materials

PCTFE (polytetrafluoroethylene)

Standard seat material on bellows series and metal diaphragm series products.

PI (polyimide), PA (PFA)

Recommended option for non-standard temeratures and fluids.

Body and Bellows Materials

Hastelloy®

For services that require excepional corrosion resistance, Hastelloy C-22(R) bodies and diaphragms may be specified as an optional material.

Inconel

Inconel 718 bellows may be specified if high-cycle operation is demanded of a valve.

Proximity Sensors and Limit Switches

When open or closed position verification is required on pneumatically actuated valves, proximity sensors or limit switches that output an electrical signal to an external unit are optionally available. Valves with a limit switch may be substitued for proximity sensor valves.

Handle Colors

Handles may be specified in a wide variety of optional colors.

COMPARISON CHART

	_			Bellows			Metal Diaphragm
		Pneumatically Actuated Bellows Valves	Pneumatically Actuated High-Pressure Bellows Valves	Switch Be ll ows	Round Handle Bellows Halve	Needle Bellows Valve	Metal Diaphragm Valve
Pressure Type	High-Pressure	_	•	_	_	_	•
Pres	High-Pressure Gas Cert.	_	A	_	_	_	A
er er	6.35	•	•	•	•	•	•
Nominal Diameter	9.52	•		•	•	- *2	•
20	12.7	*1	_	* 1	*1	* 1*2	*1
_	UJR	•	•	•	•	•	•
End-Connection	UJR w/Purering	A	•	A	_	A	A
Conn	F900	•		•	•	•	
End-	Butt Weld	_	A	_	_	_	_
	Socket Weld	_	A	A	A	_	A
Inner Surface Treatment	BA	•	•	•	•	•	•
Inner S Treat	UP	^	•	A	•	•	•
dy erial	SUS316L	•	•	•	•	•	•
Body Material	Hastelloy®	A	•	•	•	•	•
Bellows Material	SUS316L	•	_	•	•	•	_
ш	Inconel 718	•	•	_	_	_	_
Diaphragm Material	Inconel 718	_	_	_	_	_	•
king al	PCTFE	•		•	•	_	•
Disk Packing Material	PI	_	A	A	_	_	A
Dist	PA	A	_	A	_	_	_
	Proximity Sensor	A	_	_	_	_	_
Other	Limit Switch	A	•	-	_	_	_
	Handle Color	_	_	A	_	_	^

●: Installed as standard ▲: Installed as option

%1: Installed only when F900 is selected as end-connection type.

※2: Standard only on rough needle valve type



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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

Each purchaser or other end-user of fujikin products must rely solely on its system design engineer(s) when selecting Fujikin products for a particular system, and when determining the suitability of any system in which a Fujikin products is to be installed.

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OUR TRADE MARK

•AFMO •Fujikin

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