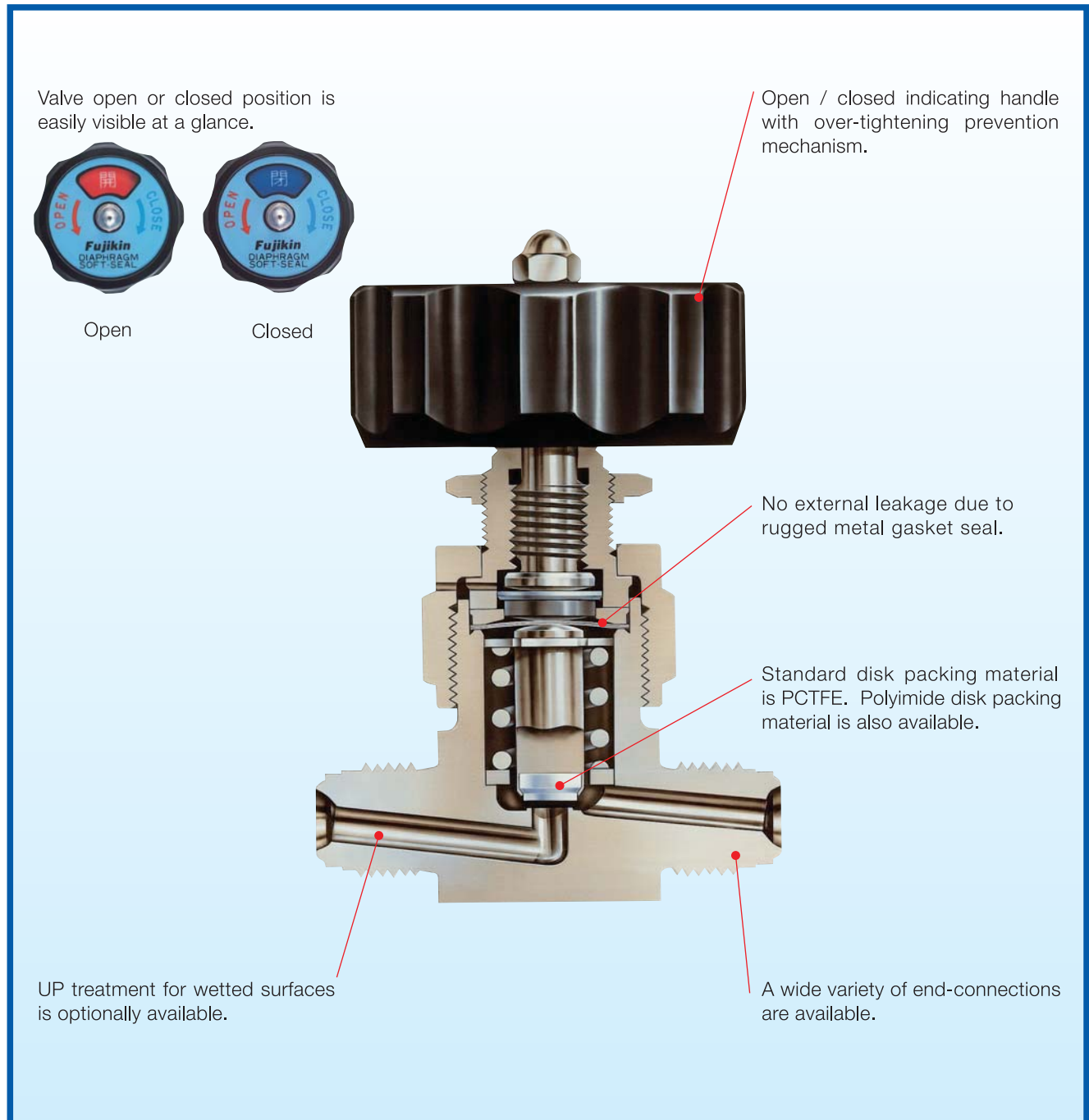


Metal Diaphragm Bellows Valve

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.





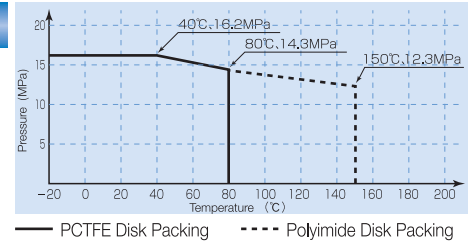
SPECIFICATIONS

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

● 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
 ● Demonstrated superior durability - 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
	Body	SUS316L
	Diaphragm	NCF 718
	Stem	SUS316L
	Disk Packing	PCTFE
	Spring	Stainless Steel

Temperature/Pressure Rating



PART NUMBER DESIGNATION

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

FUDF [] - 7 1 6 G - 6.35 [] - [] - [] - []

A	B	C	D	E	F	G	H	I	J	
Stainless steel metal diaphragm bellows valve	T B : Added only for 3-port valves*	7 : UJR end-connection 9 : F900 end-connection 5 : Tube Stub end-connection*	1 6 : 16.2MPa maximum operating pressure	G : Open / closed indicator	End-Connection Sizes 6.35 : 1/4" OD 9.52 : 3/8" OD 12.7 : 1/2" OD (UJR connections have a 9.52 port diameter)	BW : Butt weld*	Blank : Male UJR on both ends 2 : Female UJR on both ends	P I : Polyimide disk packing*	B P : Back-pressure type* B R : Female UJR with Purering* P I : Polyimide disk packing*	U P : UP treatment*

* Optional or made to order.

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

Figure 1

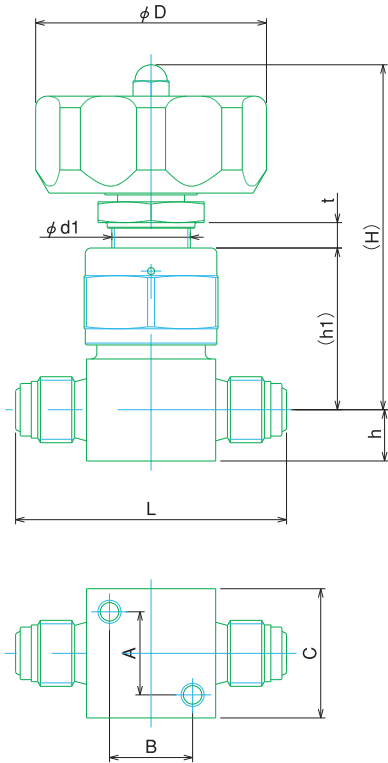


Figure 2

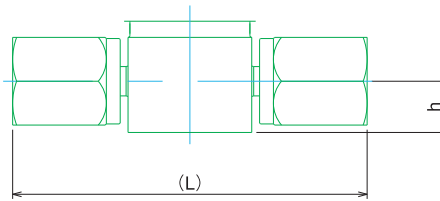


Figure 3

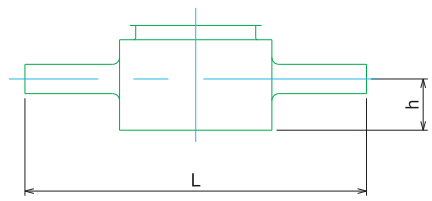


Figure 4

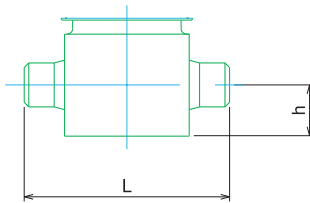
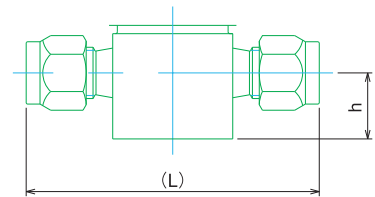


Figure 5



(Unit : mm)

Part Number	Figure	D	L	H	h	t	h1	d1	A	B	C
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	38.5	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	38.5	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	35	19.5	18	18	28
FUDF-516G-6.35BW	3	50	74	78.8	11.1	5	38.5	19.5	18	18	28
FUDF-516G-9.52BW	3	50	74	78.8	11.1	5	38.5	19.5	18	18	28
FUDF-516G-12.7BW	3	50	74	78.8	11.1	5	38.5	19.5	18	18	28
FUDF-916G-6.35	5	50	62	75.3	11.1	5	35	19.5	18	18	28
FUDF-916G-9.52	5	50	66.5	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.