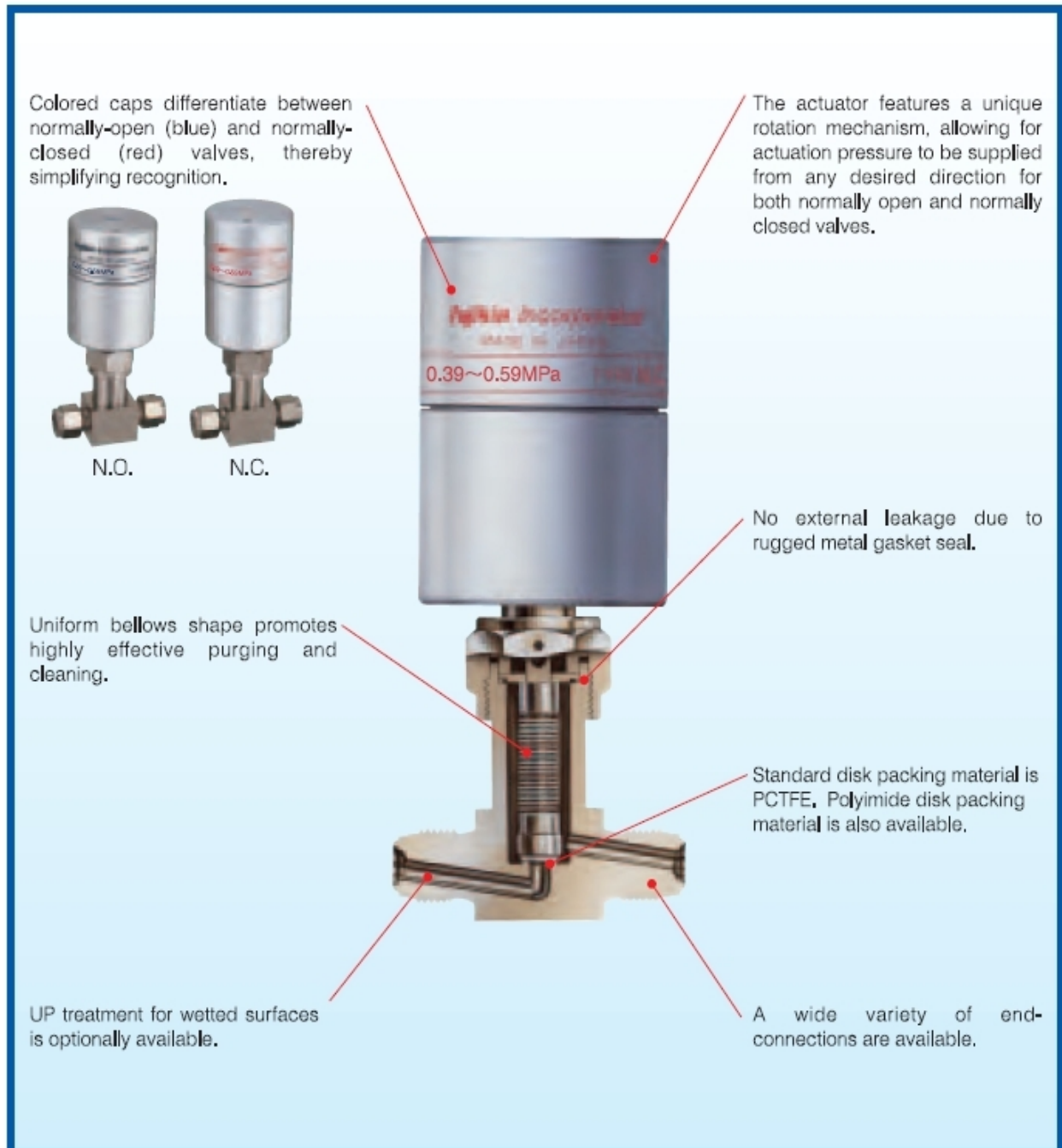


FPR-UBF Series – Pneumatically actuated bellows valves

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.



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FPR-UBF Series – Pneumatically actuated bellows valves

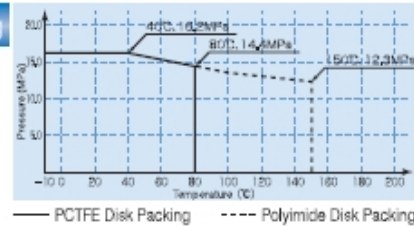
SPECIFICATIONS

Specification	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv	Actuation Pressure	Actuator Port	End-Connections	Actuation Type
	6.35 (1/4")	16,2MPa	-10~80 °C	0.3	0.29~0.59MPa	Rc 1/8"	F900 UJR Tube Stub	Normally Closed (NC) Normally Open (NO)
	9.52 (3/8")	2,350 psi	14~176 °F		56~85 psi			

- 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 100,000 cycles (actual test results).

Materials	Part	Material
	Body	SUS316L
	Bellows	Inconel 718
	Disk Packing	PCTFE
	Gasket	NW2201(Nickel)
	Actuator	A5056

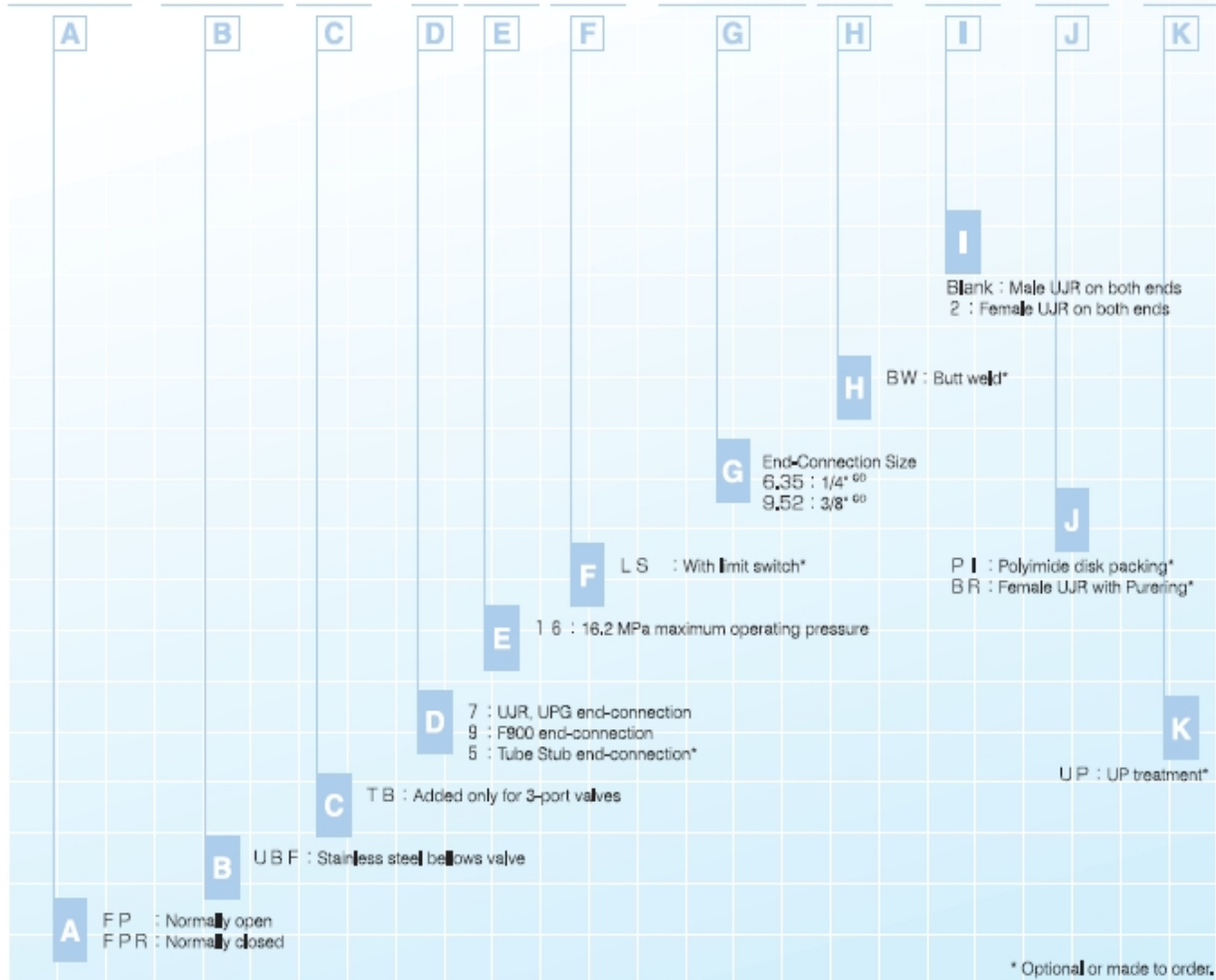
Temperature/Pressure Rating



PART NUMBER DESIGNATION

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

FPR-UBF - 7 1 6 - 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.

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FPR-UBF Series – Pneumatically actuated bellows valves

DIMENSIONS

Figure 1

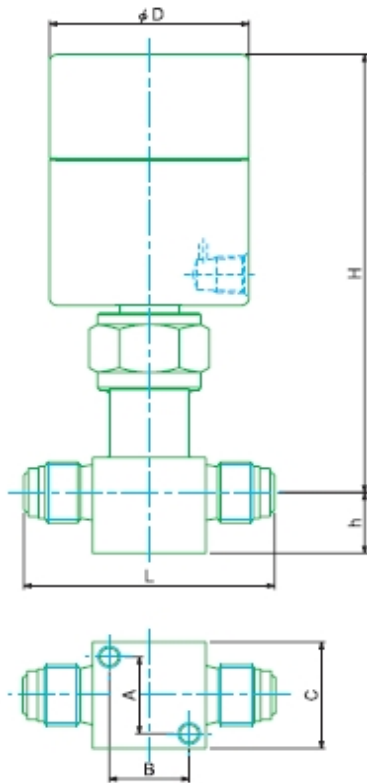


Figure 2

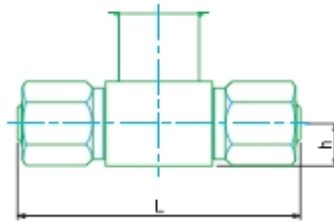


Figure 3

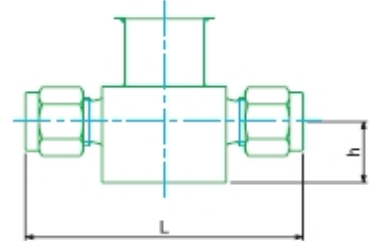


Figure 4

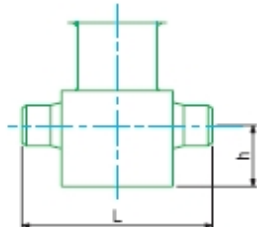
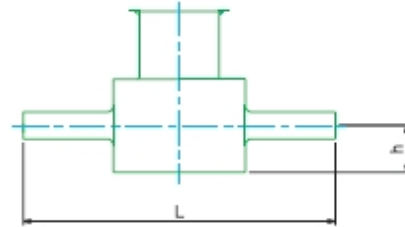


Figure 5



(Unit : mm)

Part Number	Figure	D	L	H	h	A	B	C
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

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

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FPR-UBF Series – Pneumatically actuated bellows valves

OPTIONS

Limit Switch

FPR-UBF-716LS-6,35

An electrical signal confirms open or closed position of valve.



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.

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