



FINE series PURE High Flow Valve series

KIWAMI

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The Height of
Excellence



FUDF-72G-12.7-316LP-CRB#A



FPR-NDF-72-12.7-316LP-CRB#B

High Flow Valve Series Lineup

Pressure (MPa)

20.5

16.2

2

1

FPR-NDF-721-12.7-316LP-CRB#B

FPR-UDF-721-12.7



P5



P6

FUDDFB-721G-6.35

FUDF-721G-12.7-316LP-CRB#A

FUDF-721G-12.7



P3



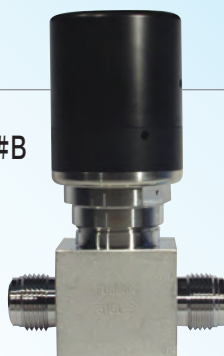
P5



P6

FPR-NDF-72-12.7-316LP-CRB#B

FUDF-72G-12.7-316LP-CRB#A



P4



P4

FPR-ND-71-9.52

FUND-71G-9.52



0.25

0.5

0.65

0.8



Direct Diaphragm Valves

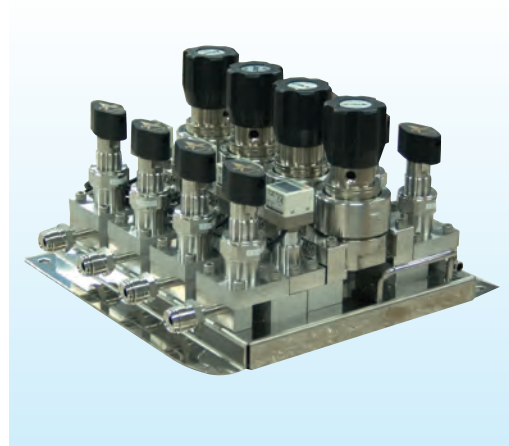


Diaphragm Valves



Bellows Valves

High-Flow IGS



P3
FUBD-71G-12.7#A



FPR-72-19.05-CXC



FUB-72-19.05



FPR-71-19.05-CXC



FUB-71-19.05

1

1.5

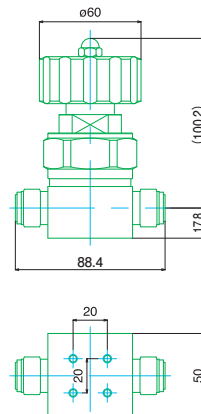
2.8

Maximum Cv Value (20°C)

Low-pressure Manual Direct Diaphragm Valve

FUBD-71G-12.7#A

1 MPa
Maximum Cv: 1.5



Specifications	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv* (with N ₂ gas at 20°C)	End Connection
	12.7	1 MPa (145 psi)	-10 to +40 °C	1.5	UJR, UPG®

● Theoretical leak rate: External leak: $< 5 \times 10^{-12}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-12}$ Pa·m³/sec

● Tested leak rate: External leak: $< 5 \times 10^{-10}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-10}$ Pa·m³/sec

* Depends on the configuration of the body.

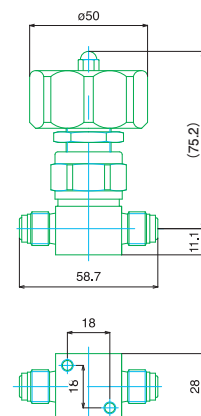
● All valves are helium leak tested.

● Durability of over 20,000 cycles under test conditions.

High-pressure Manual Direct Diaphragm Valve

FUDDFB-721G-6.35

20.5 MPa
Maximum Cv: 0.25



Specifications	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv* (with N ₂ gas at 20°C)	End Connection
	6.35	20.5 MPa (2973 psi)	-10 to +40 °C	0.25	UJR, UPG®

● Theoretical leak rate: External leak: $< 5 \times 10^{-12}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-12}$ Pa·m³/sec

● Tested leak rate: External leak: $< 5 \times 10^{-10}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-10}$ Pa·m³/sec

* Depends on the configuration of the body.

● All valves are helium leak tested.

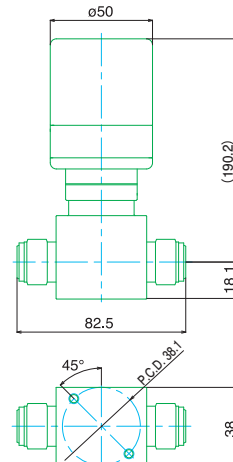
● Durability of over 20,000 cycles under test conditions.



Low-/Medium-pressure Pneumatic Diaphragm Valves

FPR-NDF-72-12.7-316LP-CRB#B

2 MPa
Maximum Cv: 1.5



Specifications	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv* (with N ₂ gas at 20°C)	Actuation Pressure	Supply Air Connection	End Connection
	12.7	2 MPa (290 psi)	-10 to +40°C	1.5	0.6 to 0.7 MPa (87 to 101 psi)	M5x0.8	UJR, UPG®

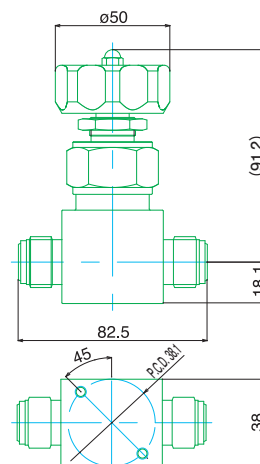
● Theoretical leak rate: External leak: $< 5 \times 10^{-12}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-12}$ Pa·m³/sec.
 ● Tested leak rate: External leak: $< 5 \times 10^{-10}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-10}$ Pa·m³/sec.
 * Depends on the configuration of the body.

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

Low-/Medium-pressure Manual Diaphragm Valves

FUDF-72G-12.7-316LP-CRB#A

2 MPa
Maximum Cv: 1.5



Specifications	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv* (with N ₂ gas at 20°C)	End Connection
	12.7	2 MPa (290 psi)	-10 to +40°C	1.5	UJR, UPG®

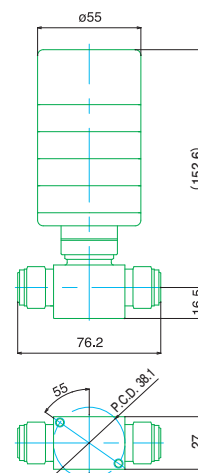
● Theoretical leak rate: External leak: $< 5 \times 10^{-12}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-12}$ Pa·m³/sec.
 ● Tested leak rate: External leak: $< 5 \times 10^{-10}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-10}$ Pa·m³/sec.
 * Depends on the configuration of the body.

● All valves are helium leak tested.
 ● Durability of over 20,000 cycles under test conditions.

High-pressure Pneumatic Diaphragm Valves

FPR-NDF-721-12.7-316LP-CRB#B

20.5MPa
Maximum Cv: 0.5



Specifications	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv* (with N ₂ gas at 20°C)	Actuation Pressure	Supply Air Connection	End Connection
	12.7	20.5 MPa (2973 psi)	-10 to +40°C	0.5	0.5 to 0.7 MPa (73 to 101 psi)	M5×0.8	UJR, UPG®

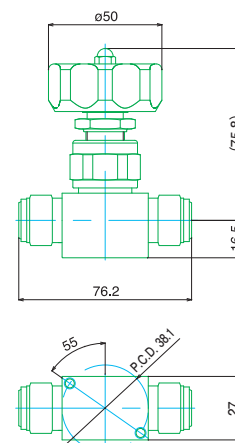
● Theoretical leak rate: External leak: $< 5 \times 10^{-12}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-12}$ Pa·m³/sec
 ● Tested leak rate: External leak: $< 5 \times 10^{-10}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-10}$ Pa·m³/sec
 * Depends on the configuration of the body.

● All valves are helium leak tested.
 ● Durability of over 15,000 cycles under test conditions.

High-pressure Manual Diaphragm Valves

FUDF-721G-12.7-316LP-CRB#A

20.5MPa
Maximum Cv: 0.5



Specifications	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv* (with N ₂ gas at 20°C)	End Connection
	12.7	20.5 MPa (2973 psi)	-10 to +80°C	0.5	UJR, UPG®

● Theoretical leak rate: External leak: $< 5 \times 10^{-12}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-12}$ Pa·m³/sec
 ● Tested leak rate: External leak: $< 5 \times 10^{-10}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-10}$ Pa·m³/sec
 * Depends on the configuration of the body.

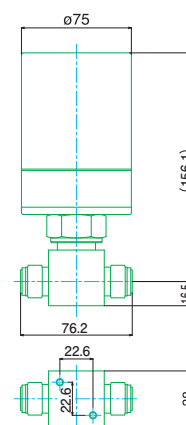
● All valves are helium leak tested.
 ● Durability of over 10,000 cycles under test conditions.



High-pressure Pneumatic Diaphragm Valves

FPR-UDF-721-12.7

20.5MPa
Maximum Cv: 1



Specifications	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv* (with N ₂ gas at 20°C)	Actuation Pressure	Supply Air Connection	End Connection
	12.7	20.5 MPa (2973 psi)	-10 to +40°C	1	0.55 to 0.75 MPa (80 to 108 psi)	Rc1/8	UJR, UPG®

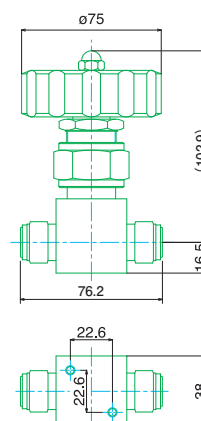
● Theoretical leak rate: External leak: $< 5 \times 10^{-12}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-12}$ Pa·m³/sec.
 ● Tested leak rate: External leak: $< 5 \times 10^{-10}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-10}$ Pa·m³/sec.
 * Depends on the configuration of the body.

● All valves are helium leak tested.
 ● Durability of over 20,000 cycles under test conditions.

High-pressure Manual Diaphragm Valves

FUDF-721G-12.7

20.5MPa
Maximum Cv: 1



Specifications	Nominal Diameter	Maximum Operating Pressure	Fluid Temperature Range	Maximum Cv* (with N ₂ gas at 20°C)	End Connection
	12.7	20.5 MPa (2973 psi)	-10 to +40°C	1	UJR, UPG®

● Theoretical leak rate: External leak: $< 5 \times 10^{-12}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-12}$ Pa·m³/sec.
 ● Tested leak rate: External leak: $< 5 \times 10^{-10}$ Pa·m³/sec. Seat leak: $< 5 \times 10^{-10}$ Pa·m³/sec.
 * Depends on the configuration of the body.

● All valves are helium leak tested.
 ● Durability of over 3,000 cycles under test conditions.

