CAT:No.700-04E-B

FINE series PURE High Flow Valve series









Pujikin Incorporation

Safety & Clean Technology

Fujikin Incorporated

High Flow Valve Series Lineup

Pressure (MPa) 20.5 FPR-NDF-721-12,7-CRB#B FPR-UDF-721-12.7 16.2 FUDDFB-721G-6.35 FUDF-721G-12.7-CRB#A FUDF-721G-12.7 P4 P6 P6 2 FPR-NDF-72-12.7-CRB#B FUDF-72G-12.7-CRB#A P4 P4 1 FUND-71G-9.52 FPR-ND-71-9.52 0.25 0.5 0.65 8.0



1.5

1

Maximum Cv Value (20°C)

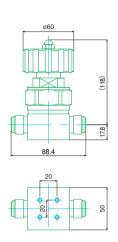
2.8

■ Low-pressure Manual Direct Diaphragm Valve

FUBD-71G-12.7

1MPa 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 x 10⁻¹² Pa·m³/sec. Seat leak: < 5 x 10⁻¹² Pa·m³/sec External leak: < 5 x 10⁻¹⁰ Pa·m³/sec. Seat leak: < 5 x 10⁻¹⁰ Pa·m³/sec Tested leak rate: External leak: < 5 x 1

 * Depends on the configuration of the body.
- All valves are helium leak tested.
- Durability of over 20,000 cycles under test conditions.

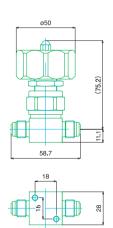
■High-pressure Manual **Direct Diaphragm Valve**

FUDDFB-721G-6.35

20.5MPa Maximum Cv: 0.25

Valves with high-pressure gas certification available.





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 x 10⁻¹² Pa·m³/sec. Seat leak: < 5 x 10⁻¹² Pa·m³/sec
- Tested leak rate: External leak: < 5 x 1

 * Depends on the configuration of the body. External leak: < 5 x 10⁻¹⁰ Pa·m³/sec. Seat leak: < 5 x 10⁻¹⁰ Pa·m³/sec
- All valves are helium leak tested.Durability of over 20,000 cycles under test conditions.



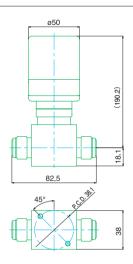
Low-/Medium-pressure **Pneumatic Diaphragm Valves**

FPR-NDF-72-12.7-CRB#B

20MPa Maximum Cv: 1.5

Valves with high-pressure gas certification available.



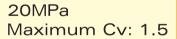


Specifications	Nominal Diameter	Nominal Diameter Operating Pressure Fluid Temperature Ran		Maximum Cv* (with N ₂ gas at 20°C) Actuation Pressure		Supply Air Connection	End Connection	
	12.7	2 MPa (290 psi)	-10 to +40°C	1.5	0.5 to 0.7 MPa (73 to 101 psi)	M5×0.8	UJR, UPG⊛	

- Theoretical leak rate: External leak: $< 5 \times 10^{-12} \text{ Pa·m}^3/\text{sec}$. Seat leak: $< 5 \times 10^{-12} \text{ Pa·m}^3/\text{sec}$
 Tested leak rate: External leak: $< 5 \times 10^{-10} \text{ Pa·m}^3/\text{sec}$. Seat leak: $< 5 \times 10^{-10} \text{ Pa·m}^3/\text{sec}$ * Depends on the configuration of the body.
 - All valves are helium leak tested.
 - Durability of over 100,000 cycles under test conditions.

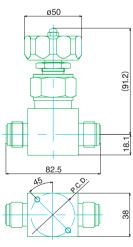
■ Low-/Medium-pressure **Manual Diaphragm Valves**

FUDF-72G-12.7-CRB#A



Valves with high-pressure gas certification available.





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 x 10⁻¹² Pa·m³/sec. Seat leak: < 5 x 10⁻¹² Pa·m³/sec External leak: < 5 x 10⁻¹⁰ Pa m³/sec. Seat leak: < 5 x 10⁻¹⁰ Pa m³/sec
- All valves are helium leak tested.
- Durability of over 20,000 cycles under test conditions.

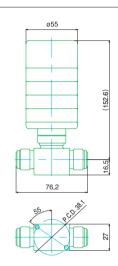
■High-pressure **Pneumatic Diaphragm Valves**

FPR-NDF-721-12.7-CRB#B

20.5MPa Maximum Cv: 0.5

Valves with high-pressure gas certification available.





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 x 10⁻¹² Pa·m³/sec. Seat leak: < 5 x 10⁻¹² Pa·m³/sec Tested leak rate: External leak: < 5 x 1

 * Depends on the configuration of the body. External leak: < 5 x 10⁻¹⁰ Pa·m³/sec. Seat leak: < 5 x 10⁻¹⁰ Pa·m³/sec
- All valves are helium leak tested.
- Durability of over 15,000 cycles under test conditions.

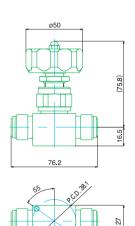
High-pressure **Manual Diaphragm Valves**

FUDF-721G-12.7-CRB#A

20.5MPa Maximum Cv: 0.5

Valves with high-pressure gas certification available.





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	0.5	UJR, UPG®	

- ●Theoretical leak rate: External leak: < 5 x 10⁻¹² Pa m³/sec. Seat leak: < 5 x 10⁻¹² Pa m³/sec
- Tested leak rate: External leak: < 5 x 1

 * Depends on the configuration of the body. External leak: < 5 x 10⁻¹⁰ Pa·m³/sec. Seat leak: < 5 x 10⁻¹⁰ Pa·m³/sec

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



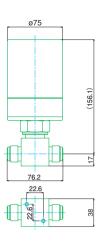
High-pressure **Pneumatic Diaphragm Valves**

FPR-UDF-721-12.7

20.5MPa Maximum Cv: 1

Valves with high-pressure gas certification available.





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 x 10⁻¹² Pa·m³/sec. Seat leak: < 5 x 10⁻¹² Pa·m³/sec ●Tested leak rate: External leak: < 5 x 10⁻¹⁰ Pa·m³/sec. Seat leak: < 5 x 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.

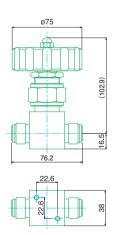
■High-pressure **Manual Diaphragm Valves**

FUDF-721G-12.7

20.5MPa Maximum Cv: 1

Valves with high-pressure gas certification available.





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 x 10⁻¹² Pa·m³/sec. Seat leak: < 5 x 10⁻¹² Pa·m³/sec ●Tested leak rate: External leak: < 5 x 10⁻¹⁰ Pa m³/sec. Seat leak: < 5 x 10⁻¹⁰ Pa m³/sec
 - All valves are helium leak tested. Durability of over 3,000 cycles under test conditions.

* Depends on the configuration of the body.

Valves with High-pressure Gas Certification Specifications

Allocation No.							Attach	ad Dagumanta		
Ser	ial No).					Attach	ed Documents		
Cus	stome	er					'	Code No.		
Enc	l Use	r *1						Code No.		
Targe	et Syst	em Name *2						Type of Test Performed	*3 High-pressure (Certification Test Recertification Test
Equip	oment (Category *3	E: Booinroos	N: Valves, ting compressor, Z: Combin	N-II: Fittings, O: Other	og E: Othor pross	euro voccol	Delivery Date	Trigit products t	100011111001101111001
Pro	duct	Number	1. Necipioca	ting compressor, Z. Combin	теа едагріттетіі, ім. таріі	ig, L. Other press	oute vessel	Quantity		
Addition					Drawing No.			End Connection Si	ze	
Product		ormal Pressure			Daning Danasura			Will this be used		
		m Operating Pressure n Temperature	MINI	MAX.	vii aj N	ormal	MPa	Yes (State of High-pressure Gas	S*3 Gasagus Ligu	Pa) refied, Dissolved
S				°C to nmable, Toxic and Flam	°C	p-prossure Ot	°C her	• •	Gaseous, Liqu	lelleu, Dissolveu
Specifications			Air Nitroge	en, Helium, Oxygen, Hy			i i e i			
cific	· Gas*3	Non-toxic	Other (Dhashina Araina F	Diboropo Hydrogop	aalanida Mar	a a a a r m a n .	n Dicilana)
Spe	ne of	Special Toxic/flammable		e, Phosphine, Arsine, D Carbon monoxide, Oth		selenide, ivior	подептан	e, Distiane)
	Name	Toxic		chloride, Chlorine, Hyd		er ()
		aterial *3	SUS316 or				SCS14	C3	604B	C3771B
Othe		ecial Spec	SUSF316 ifications:	SUSF304	SUSF31 Target system has leak det	*3	Other (Valv	e used for toxic ga -pressure gas) ha:	as (special	*3 Yes / No
							*1: Er de *2: Er ec *3: Ci *4: Va ec su or (c)	all items within bold lines ter the name of the prod ilivered via a set/apparatu: ter the name of high-pres juipment, etc. rcle the one that applies. ilves with threaded fitting juipment for toxic gases (bject to identification as or N-II (fittings). If applicable ombined equipment) if wi juipment)).	uct's end user. If the pr s maker, please include ssure gas system or pr s to be used in high-pre as per the General Pro- one of the following cat e, circle both N and N-II	e their names also. pocessing pessure gas vision,Article 2-2) are tegories: N (valves) L (Circle only Z
Or	der N	10.					Com	ments from Facto	ory Personnel:	
⊢—	oject									
Sp	ec. N									
(2)Te (3)In (4)O ·Deli ·Mill ·Cald ·Fuji ·Des	est Cestruc struc ther ivery Cert culation kin D sign S	eport (Authertificate (International Manuscope) Specificate Specificate Specificate	II Thickness cification (st ons ures	er) 1 copy d) Copies Copies Copies Copies Strength	estination (Products s Office d directly to:		es)	T D C	M	F D
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