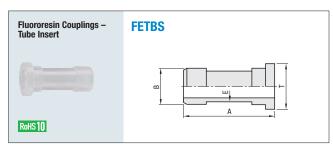
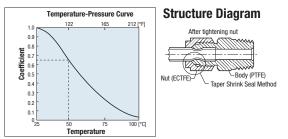
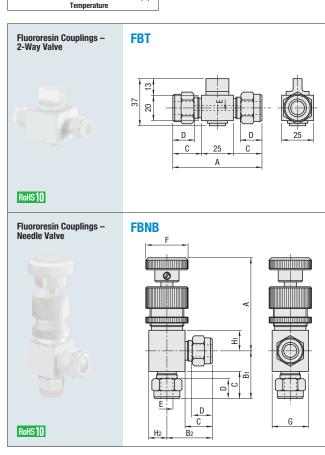
# **Fluororesin Couplings**

Tubes / Fittings / Suction Components / Nozzles

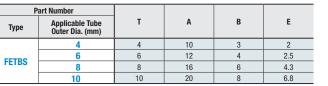
**Tube Insert / 2-Way Valve / Needle Valve** 







Part Number



## 1 It is not required for PTFE and PFA Type.

## **Tightening Torque of Nuts (Reference Values)**

Tube	Size	Tightenin	ng Torque	No. of Revolution
m	m	N.m	kgf-cm	No. of Revolution
4 x 3	_	0.12	1.2	1
6 x 4	6.35 x 4.3	0.23	2.3	1-1/4
8 x 6	_	0.45	4.6	1-1/4
10 x 8	9.53 x 6.3	0.8	8.2	1-1/2

- 1. PFA tube is used in the measurement.
- 2. General tolerance of tube is absorbed if secured by the above torque value.
- 3. No. of revolution is from when tightening becomes fixed suddenly after lightly tightened by hand.

Applicable Fluid	Super Pure Water, Acid, Alkali, Organic Solvent
Operating Temperature Range	0-100°C
Max. Operating Pressure	Nominal Diameter 4–8: 0.8 MPa Nominal Diameter 10: 0.6 MPa

- Excels in chemical resistance.
- Possible to tighten the nut with a spanner without using special tools.

Pa	rt Number				
Туре	Applicable Tube Outer Dia. (mm)	A	С	D	E
	4	47	11	7	4
FBT	6	53	14	10	4
FDI	8	61	18	12	4
	10	67	21	16	4

## Specifications

Applicable Fluid	Super Pure Water, Acid, Alkali, Organic Solvent
Operating Temperature Range	Ambient Temperature
Max. Operating Pressure	0.2 MPa
Applicable Material	PTFE / ECTFE / Fluoro Rubber

- Excels in chemical and corrosion resistance.
- Can be used in limited space because of its compact size.

Pai	t Number	A										
Туре	Applicable Tube Outer Dia. (mm)	Max.	Min.	B <sub>1</sub>	B <sub>2</sub>	С	D	E	F	G	H <sub>1</sub>	H <sub>2</sub>
	4	76	67	23	22.5	11	7	3	30	23	12	11.5
FBNB	6	76	67	26	25.5	14	10	4	30	23	12	11.5
FDND	8	76	67	30	29.5	18	12	6	30	23	12	11.5
	10	87	77	38	36	21	16	8	35	30	17	15

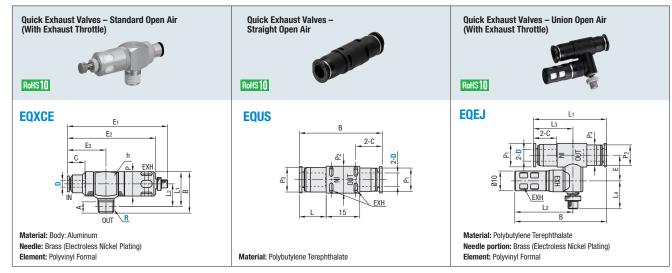
# **Specifications**

Applicable Fluid	Super Pure Water, Acid, Alkali, Organic Solvent
Operating Temperature Range	0-100°C
Max. Operating Pressure	0.5 MPa
Applicable Material	PTFE / PCTFE / ECTFE / PP

- Excels in chemical and corrosion resistance.
- Possible to finely adjust flow rate by turning the handle.

# **Quick Exhaust Valves / Pressure Gauges**

Standard Open Air / Union Open Air / Straight / Union Straight



## Quick Exhaust Valves - Standard

Part N	umber									E	1					e Sectional Area (mm²)	
Туре	Tube Outer Dia. (mm) D	R (PT)	Nominal	Α	В	L <sub>1</sub>	L <sub>2</sub>	P	C	Max	Min	E <sub>2</sub>	E <sub>3</sub>	Opposite Side H	IN → OUT	OUT → EX	Mass (g)
	4	1 (R1/8)	1	8	25.5	21.5	14	15	10.9	66.7	61.8	54.3	23.8	15	4	8	23
		1 (D1/0)	1	8	25.5	21.5	14	15	11.7	67	62.1	54.6	24.1	15	6	8	23
FOVOE	6	1 (R1/8)	2		29	٥٦	10	3 18		77.4	77.4	1.6 63.1	.1 28.1	18	9	15	35
EQXCE		2 (R1/4)	1	11	31	25	16			77.4	/1.6						37
		1 (R1/8)	1	8	29	25	10	10	10.0	00.7	70.0	CO 4	22.4	10	10	15	39
	8	2 (R1/4)	1	11	31	25	16	6   18	18.2	82.7	76.9	68.4	8.4 33.4	18	12		41

## Quick Exhaust Valves - Straight

QUICK L	Miaust vaiv	C3 - 1	ou aiç	,,,,						
Part Number		В	L	P <sub>1</sub>		<b>P</b> <sub>3</sub>		Effective Se	Mass	
Туре	Type Tube Outer Dia. (mm)				P <sub>2</sub>		С	IN → OUT	OUT → EX	(g)
FOLIC	4	34.6	11	8.4	10	9	11	1.8	1.8	3.3
EQUS	6	37	12	10.4	12	11	11.6	4	4	4.9

## Union Open Air (With Exhaust Throttle)

Part I	Number					L	-4								Section	ctive nal Area (m²)	
Туре	Tube Outer Dia. (mm) D	В	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	Max	Min	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	P <sub>4</sub>	C <sub>1</sub>	C <sub>2</sub>	E	IN → OUT	OUT →	Mass (g)
FOF	4	27.3	34.6	11.2	18.5	19.5	14.5	9.8	9	8.4	9	11	8.6	11	1.8	1.7	7.2
EQEJ	6	29	37	12	20	19	14	11.8	11	10.4	11	12	10	13	4	2.8	9.2



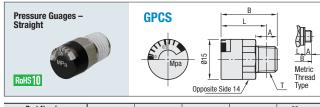
Applicable Fluid	Air
Operating Pressure Range	0.1-0.7 MPa
Max. Pressure	1.35 MPa
Operating Temp. Range	5-60°C (Non-freezing)
Min. Operating Pressure	0.05 MPa



## Feature:

- Applicable to high-speed driving cylinder since air is quickly exhausted. For exhaust throttle type, the driving speed of cylinder can be adjusted. Precautions:

- For exhaust throttle type, due to clogging of elements, exhaust resistance may increase and cause deterioration in general system function. In such case, discontinue the use and replace the main body. Not applicable as shuttle valve.



			Opposite Side 14								
Part Numb		т	Δ	R	1	Mass					
Type	No.	'	_ ^		-	(g)					
	1	R1/8	8	21	17	8					
GPCS	2	R1/4	11	24	18	16.5					
	5	M5x0.8	3	16.5	13.5	6					



	Part Number	D				Mass	
Type	Type Tube Outer Diameter D		U	E <sub>1</sub>	E <sub>2</sub>	(g)	
	4	10	15	17	24.5	12.5	
GPUS	6	13	17	20	26	15.5	
	8	15	18.5	22	28	20	



Specifications			
	Applicable	e Fluid	Air
	Indicated Pressure Range		0-0.8 MPa
	Accuracy		±5% (Full Scale*)
	Operating Temperature Range		0-60°C
	Scale Angle		150°
		Сар	Acrylic
	Material	Metal Body	Brass (Nickel Plating)
		Pocin Rody	DRT Polybutylone Toronbtha

- GPUS can be changed in direction using the hexagonal part of its body.

\*Displayed position differences when the displayed pressure has suddenly changed from 0 to Max. value of 0.8 MPa.

**Part Number** Example