KOGANEI
https://www.koganeiusa.com

Catalog No. BU-PS001

PISCO P-set Series

Tamper Proof Preset Products

The P-set Series is designed to deliver secure, durable, and reliable components for fluid handling and pneumatic systems.
This series emphasizes tamper resistance and long-term performance, ensuring optimal functionality and longevity in demanding applications.

P-Set Product Lineup

Pre-Set Pressure Regulators

Constant Flow Speed Controllers

Slot-Head Speed Controllers

Fixed Orifice Fittings

Lockout for Ball Valves

PISCO®

KOGANEI

The pressure of downstream is preset, cannot be changed and saves the procedures for adjusting/setting pressure

Preset pressure regulator

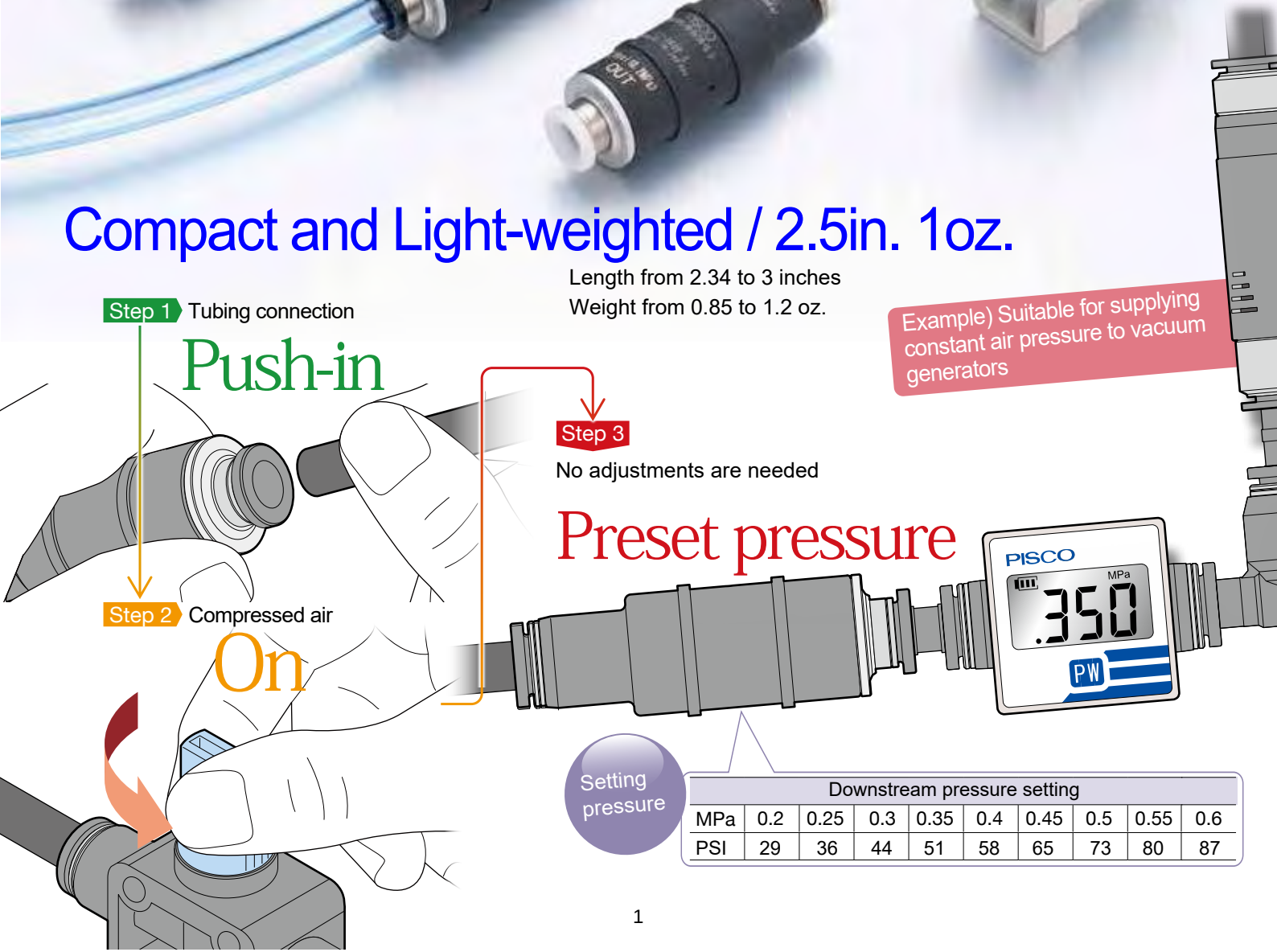
NEW !

Tamper proof

Compact and Light-weighted / 2.5in. 1oz.

Length from 2.34 to 3 inches
Weight from 0.85 to 1.2 oz.

Example) Suitable for supplying constant air pressure to vacuum generators



Setting pressure

Downstream pressure setting									
MPa	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6
PSI	29	36	44	51	58	65	73	80	87

Features

Time saving for OEM products assemblies

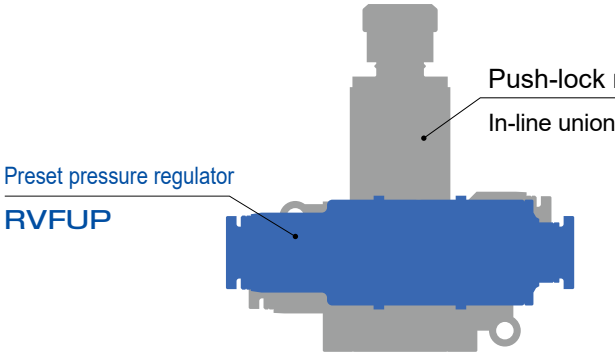
No need to adjust the secondary pressure due to pressure pre-set

Tamper proof

Preset - No adjusting knob nor screw

In-line type regulator - Standard bracket is provided as option

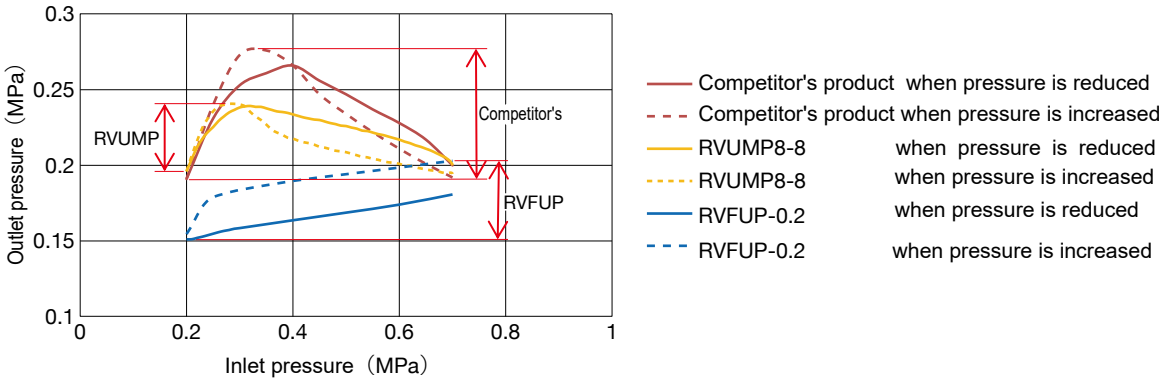
Compact body - 67% volume reduced (compared with RVUP type)



Length from 2.34 to 3 inches
Weight from 0.85 to 1.2 oz.

Fluctuation of the outlet pressure is minimized even the inlet pressure changes

Pressure characteristic (comparison table) (ex.: in case of 0.2MPa as the outlet setting pressure)

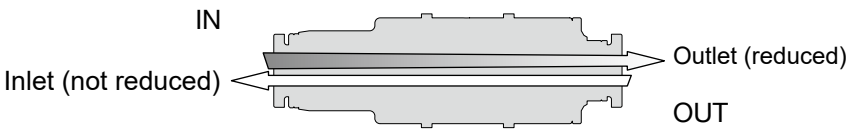


※1) Inlet pressure: 0.7MPa / Outlet pressure: 0.2MPa (setting) → Shift the pressure from 0.7MPa to 0.2MPa then back to 0.7MPa
※2) Pressure characteristic is measured by the method leaking the outlet air through ø0.1mm bore orifice.

Free reverse flow function

Can be used as a check regulator by installing it between solenoid valve and actuator.

※) In case the pressure of inlet side is lower than outlet side, air flows to inlet side. (No relief function though)



Implementing the regulator on each actuator to save air consumption by appropriate compressed air being supplied.

Model Designation (Example)

RVFUP 4-4 ① - 0.2 ②

Preset pressure regulator

②. Outlet pressure pre-setting

Code		0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6
Outlet pressure	MPa	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6
	psi	29	36	44	51	58	65	73	80	87

①. Port size (Tubing O.D.)

	Imperial size (in.)				Metric size (mm)			
Code	5/32-5/32	1/4-1/4	5/16-5/16	3/8-3/8	4-4	6-6	8-8	10-10
Tubing O.D.	ø5/32	ø1/4	ø5/16	ø3/8	ø4	ø6	ø8	ø10

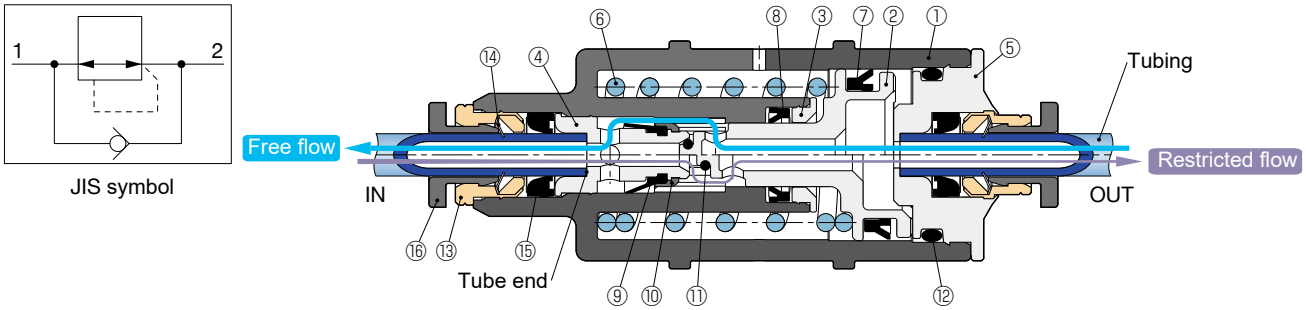
■Bracket Model Designation

VFUH3 → Bracket

Specification

Fluid medium	Air
Service pressure range	Preset pressure ~ 145psi (1.0MPa)
Service temperature range	32~140°F (0 ~ 60°C) (No freezing)
Pressure tolerance	±3.6psi (±0.025MPa) (When preset pressure+0.3MPa is supplied)

Construction



No.	Parts	Material
①	Resin body	PBT
②	Piston	POM
③	Seal retainer	Brass, electroless nickel-plating
④	Valve retainer	Aluminum
⑤	Fitting body	Aluminum
⑥	Spring	Stainless steel
⑦	Y shape seal	NBR
⑧	Rod seal	NBR

No.	Parts	Material
⑨	Y shape seal	HNBR
⑩	Check valve retainer	PBT
⑪	O-ring	HNBR
⑫	O-ring	NBR
⑬	Guide ring	Brass, electroless nickel-plating
⑭	Lock claws	Stainless steel
⑮	Elastic sleeve	NBR
⑯	Release ring	POM

Precautions

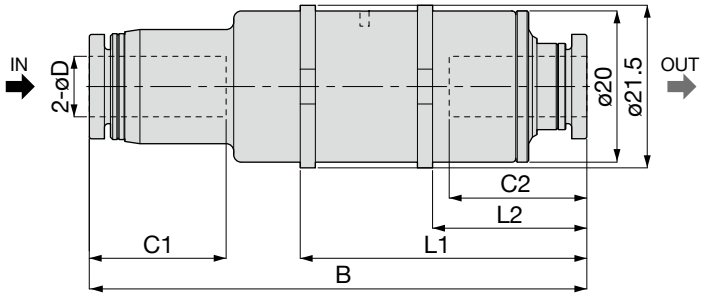
⚠Warning

1. The product does not have a relief function. It can cause malfunction in the system if there is possibility the pressure of outlet side becomes higher than the inlet pressure.

⚠Caution

1. Do not use the products where the accuracies are required.
2. Ratting noise of chattering may occur depending on the pressure level and flow rate.

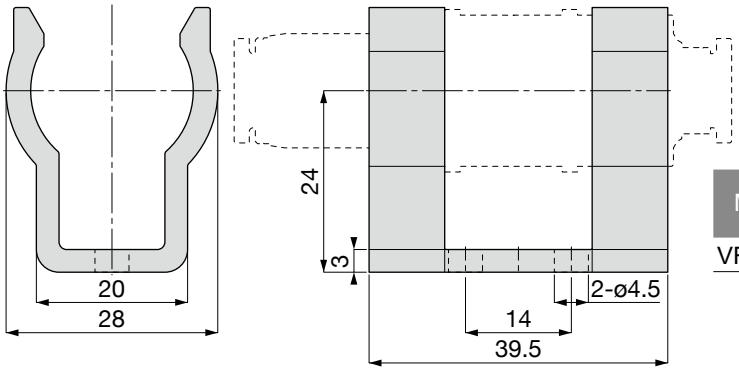
Dimensions



Unit：㎜

Model	Tubing O.D. øD	B	L1	L2	Tube End C1	Tube End C2	Weight（g）（[2]（Outlet presetting pressure））									Price（$）	CAD File name
							0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.55	0.6		
RVFUP5/32-5/32-[2]	5/32in.	59.4	36.7	19.2	14.9	14.9	24	24	25	25	25	25	25	26	26	26.18	RVFUP5'32-5'32_
RVFUP1/4-1/4-[2]	1/4in.	62.4	37.7	20.2	17	17	26	26	26	26	27	27	27	28	28	28.00	RVFUP1'4-1'4_
RVFUP5/16-5/16-[2]	5/16in.	65.8	37.9	20.4	18.1	18.2	27	27	28	28	28	28	28	29	29	32.27	RVFUP5'16-5'16_
RVFUP3/8-3/8-[2]	3/8in.	76.1	46.1	28.6	20.2	20.7	33	33	33	33	34	34	34	34	34	38.18	RVFUP3'8-3'8_
RVFUP4-4-[2]	4	59.4	36.7	19.2	14.9	14.9	24	24	25	25	25	25	25	26	26	26.18	RVFUP4-4_
RVFUP6-6-[2]	6	62.4	37.7	20.2	17	17	26	26	27	27	27	27	27	28	28	28.00	RVFUP6-6_
RVFUP8-8-[2]	8	65.8	37.9	20.4	18.1	18.2	27	27	28	28	28	28	28	29	29	32.27	RVFUP8-8_
RVFUP10-10-[2]	10	76.1	46.1	28.6	20.2	20.7	32	32	33	33	33	34	34	34	34	38.18	RVFUP10-10_

Dimensions of Bracket

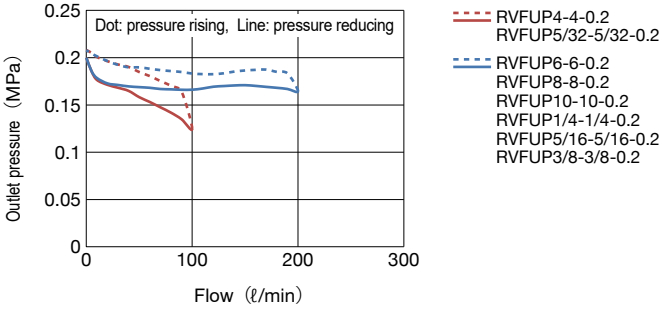


Unit：㎜

Model	Weight（g）	Price（$）	CAD File name
VFUH3	7.8	1.36	VFUH3

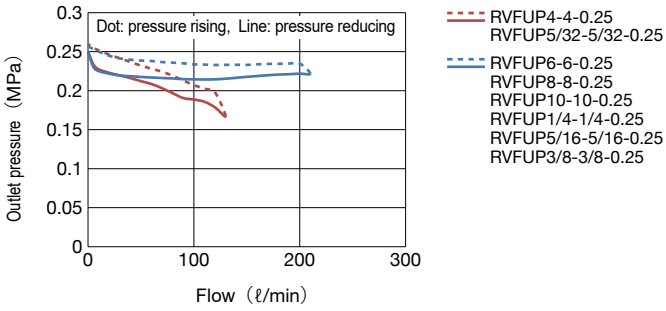
Characteristics

0.2MPa preset models（Rated pressure：0.5MPa）



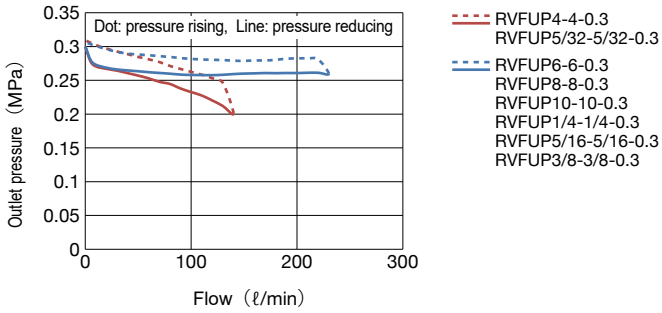
RVFUP4-4-0.2
RVFUP5/32-5/32-0.2
RVFUP6-6-0.2
RVFUP8-8-0.2
RVFUP10-10-0.2
RVFUP1/4-1/4-0.2
RVFUP5/16-5/16-0.2
RVFUP3/8-3/8-0.2

0.25MPa preset models（Rated pressure：0.55MPa）



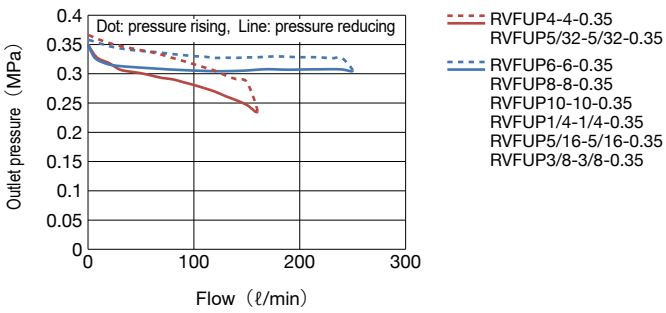
RVFUP4-4-0.25
RVFUP5/32-5/32-0.25
RVFUP6-6-0.25
RVFUP8-8-0.25
RVFUP10-10-0.25
RVFUP1/4-1/4-0.25
RVFUP5/16-5/16-0.25
RVFUP3/8-3/8-0.25

0.3MPa preset models（Rated pressure：0.6MPa）



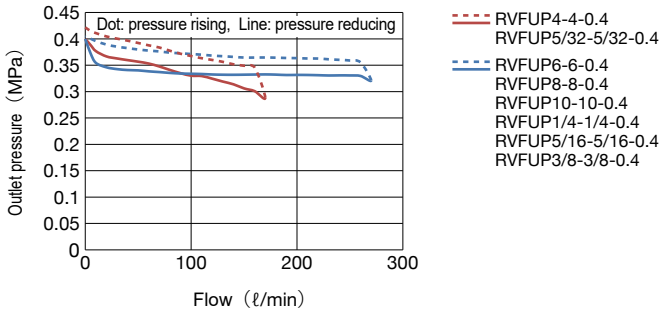
RVFUP4-4-0.3
RVFUP5/32-5/32-0.3
RVFUP6-6-0.3
RVFUP8-8-0.3
RVFUP10-10-0.3
RVFUP1/4-1/4-0.3
RVFUP5/16-5/16-0.3
RVFUP3/8-3/8-0.3

0.35MPa preset models（Rated pressure：0.65MPa）



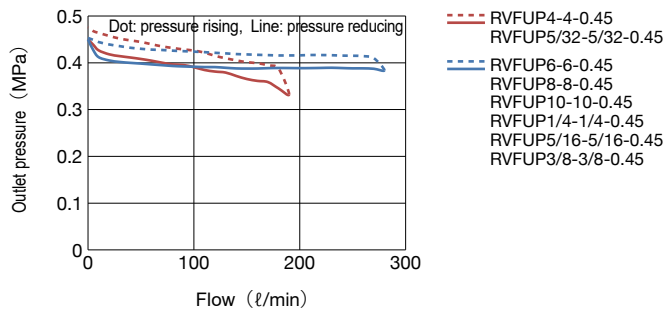
RVFUP4-4-0.35
RVFUP5/32-5/32-0.35
RVFUP6-6-0.35
RVFUP8-8-0.35
RVFUP10-10-0.35
RVFUP1/4-1/4-0.35
RVFUP5/16-5/16-0.35
RVFUP3/8-3/8-0.35

0.4MPa preset models（Rated pressure：0.7MPa）



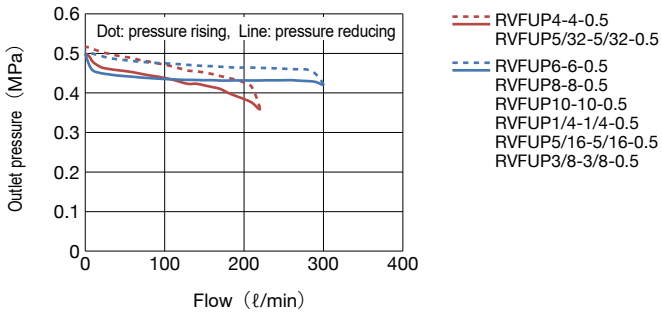
RVFUP4-4-0.4
RVFUP5/32-5/32-0.4
RVFUP6-6-0.4
RVFUP8-8-0.4
RVFUP10-10-0.4
RVFUP1/4-1/4-0.4
RVFUP5/16-5/16-0.4
RVFUP3/8-3/8-0.4

0.45MPa preset models（Rated pressure：0.75MPa）



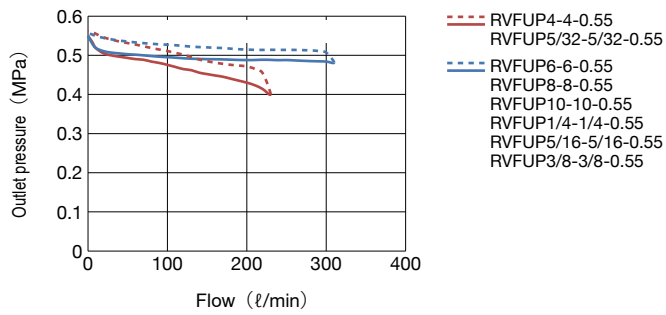
RVFUP4-4-0.45
RVFUP5/32-5/32-0.45
RVFUP6-6-0.45
RVFUP8-8-0.45
RVFUP10-10-0.45
RVFUP1/4-1/4-0.45
RVFUP5/16-5/16-0.45
RVFUP3/8-3/8-0.45

0.5MPa preset models（Rated pressure：0.8MPa）



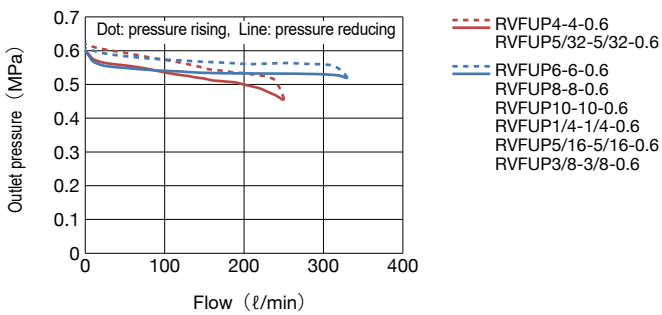
RVFUP4-4-0.5
RVFUP5/32-5/32-0.5
RVFUP6-6-0.5
RVFUP8-8-0.5
RVFUP10-10-0.5
RVFUP1/4-1/4-0.5
RVFUP5/16-5/16-0.5
RVFUP3/8-3/8-0.5

0.55MPa preset models（Rated pressure：0.85MPa）



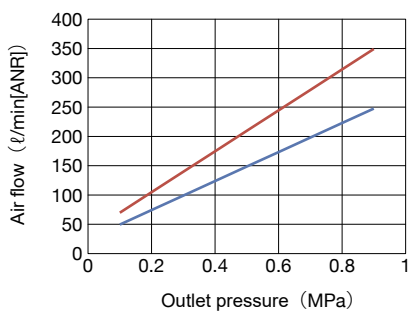
RVFUP4-4-0.55
RVFUP5/32-5/32-0.55
RVFUP6-6-0.55
RVFUP8-8-0.55
RVFUP10-10-0.55
RVFUP1/4-1/4-0.55
RVFUP5/16-5/16-0.55
RVFUP3/8-3/8-0.55

0.6MPa preset models（Rated pressure：0.9MPa）



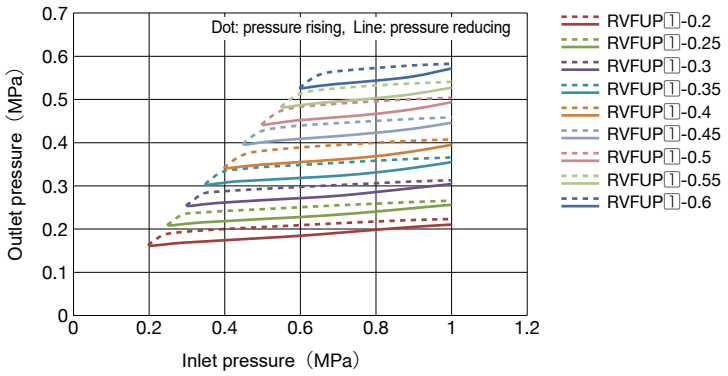
RVFUP4-4-0.6
RVFUP5/32-5/32-0.6
RVFUP6-6-0.6
RVFUP8-8-0.6
RVFUP10-10-0.6
RVFUP1/4-1/4-0.6
RVFUP5/16-5/16-0.6
RVFUP3/8-3/8-0.6

Free flow characterstics



RVFUP4-4-□
RVFUP6-6-□
RVFUP8-8-□
RVFUP10-10-□

Pressure characteristics



※)Inlet pressure changes : from **1.0MPa** to **Designated pressure, then** back to **1.0MPa**

Orifice Flow Speed Controller

Push-in fitting type fixed-orifice flow control valve

⚠Safety instructions for this product
Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

JK (1) C (2) 6 (3) – 01 (4) A (5) 0.7 (6)

(1) Orifice Flow Speed Controller **(2) Type**

Code	C	L
Type	Straight	Elbow

(3) Tube dia. (øD)

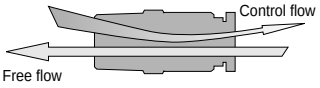
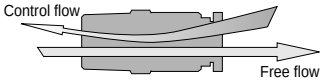
	mm size (mm)			inch size (inch)	
Code	4	6	8	5/32	1/4
Tube O.D.	ø4	ø6	ø8	ø5/32	ø1/4

(4) Thread size (R)

	Taper pipe thread		UNF Thread	NPT Thread	
Code	01	02	U10U	N1U	N2U
Thread size	R1/8	R1/4	10-32UNF	NPT1/8	NPT1/4

*Only R1/8 is available for tube dia. ø4mm.

(5) Control direction

Code	A	B
	Meter-out control	Meter-in control
Control direction	 Air from thread side is controlled. Air from tube side is not controlled and flows out from thread side	 Air from tube side is controlled. Air from thread side is not controlled and flows out from tube side.
Identification	Marking on metallic body : A	Marking on metallic body : B

(6) Orifice bore (○: Available)

Code (Orifice bore (mm))	0.1*	0.2*	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
U10	○	○	○	○	○	○	○	○	○	○	–	–	–	–	–	–	–	–	–	–
01(N1)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	–	–	–	–	–
02(N2)	–	–	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

*Orifice bore 0.1 and 0.2mm are selectable only for tube dia. ø4mm and 5/32".

Characteristics

No variable mechanism of control flow rate.

For the first purchase, please contact us. Orifice samples are available and suitable orifice bore is selectable. Please note that it is not possible to change the flow rate after purchasing.

Various line-up

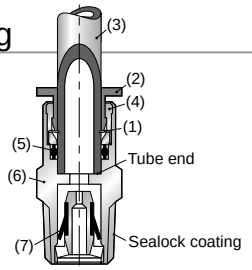
Orifice bore 0.1 and 0.2mm are prepared only for tube dia. ø4mm and 5/32".

Specifications

Fluid medium	Air
Operating pressure range	0.1 to 0.9 MPa
Check valve opening pressure	0.05 MPa
Operating temp. range	0 to 60°C (No freezing)

Sectional drawing

Straight type: JKC ø4,ø6mm



No,	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release-ring	POM
(3)	Tube	Polyurethane, Nylon, etc
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	Metallic body	Nickel-plated brass
(7)	Diaphragm	HNBR

RoHS2 (2011/65/EU+EU2015/863) compliant

Type	Model code JKCøD-R[5][6]	Model code JKCøD-R[5]U[6]	Type	Model code JKLøD-R[5][6]	Model code JKLøD-R[5]U[6]
Straight JKC 	JKC4-01[5]0.1	JKC5/32-U10[5]U[6]	Elbow JKL 	JKL4-01[5]0.1	JKL5/32-U10[5]U[6]
	JKC4-01[5]0.2	JKC5/32-N1[5]U0.1		JKL4-01[5]0.2	JKL5/32-N1[5]U0.1
	JKC4-01[5][6]	JKC5/32-N1[5]U0.2		JKL4-01[5][6]	JKL5/32-N1[5]U0.2
	JKC6-01[5][6]	JKC5/32-N1[5]U[6]		JKL6-01[5][6]	JKL5/32-N1[5]U[6]
	JKC6-02[5][6]	JKC1/4-N1[5]U[6]		JKL6-02[5][6]	JKL1/4-N1[5]U[6]
	JKC8-01[5][6]	JKC1/4-N2[5]U[6]		JKL8-01[5][6]	JKL1/4-N2[5]U[6]
	JKC8-02[5][6]			JKL8-02[5][6]	

Notes
*For [5] in model code, please select a control direction code, for [6], at the end of model code, please select a orifice bore code.

CAD data is available at PISCO website.

Packaging specifications
1 pc. /bag

Slot-head Speed Controller

Flow control valve with recessed adjustment screw for tamper-proof.

⚠ Safety instructions for this product
Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

JSD	C	6	-	01	A		
(1)	(2)	(3)		(4)	(5)	(6)	(7)

(1) Slot-head Speed Controller

(2) Type

Code	C	S
Type	Elbow	Free

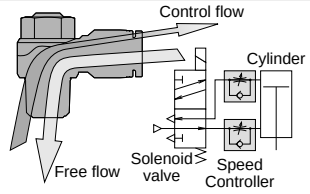
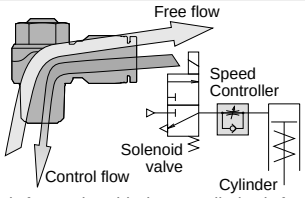
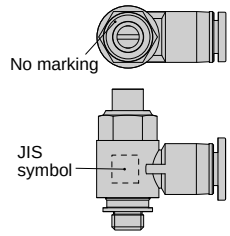
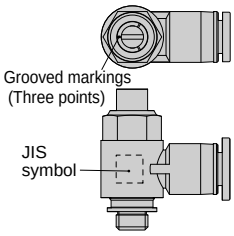
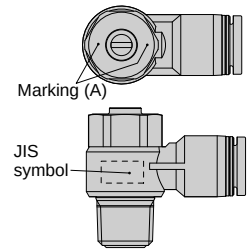
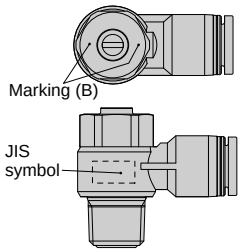
(3) Tube dia. (øD)

	mm size (mm)						inch size (inch)			
Code	3	4	6	8	10	12	1/8	1/4	5/16	3/8
Tube O.D.	ø3	ø4	ø6	ø8	ø10	ø12	ø1/8	ø1/4	ø5/16	ø3/8

(4) Thread size (R)

	Metric thread		Taper pipe thread				Unified fine thread	Inch NPT			
Code	M3	M5	01	02	03	04	U10	N1	N2	N3	N4
Thread size	M3×0.5	M5×0.8	R1/8	R1/4	R3/8	R1/2	10-32UNF	NPT1/8	NPT1/4	NPT3/8	NPT1/2

(5) Control direction

Code	A	B
Control direction	Meter-out control	Meter-in control
		
	Air from thread side is controlled. Air from tube side is not controlled and flows out from thread side	Air from tube side is controlled. Air from thread side is not controlled and flows out from tube side.
Identification – Metric or UNF thread	Grooved markings on three points on its upper plug, and a JIS symbol on its resin body.	
		
Identification – Taper pipe male thread	A or B marking on its upper plug and a JIS symbol on its resin body.	
		

(6) Body color + Clean-room packaging specifications (Optional)

Code	No code	-C	W	W-C
Specifications	Standard	Clean-room package	Light-gray	Light-gray + Clean-room package
Appearance spec.				
Release-ring color*	Black	Light-blue	Light-gray	Light-gray
Resin body color	Black	Light-gray		

*1. Release-ring color for inch type : White for all the specifications
*2. There is no option "W-C" for inch-size product since it is the same product as "-C".

Code: **No code** (Inch) 

Code: **-C, W** (Inch) 

(7) Wrench size specification

Code	No code	U
Wrench size spe.	mm spec.	inch spec.

Slot-head Speed Controller

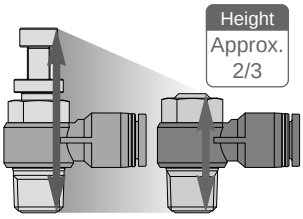
Characteristics

It prevents unnecessary manual adjustments during the operations.

Design without an external needle for flow adjustment.
Use a slot screwdriver to adjust the needle. (Flow adjustment)

Miniaturized.

Approx. 2/3 height of the Needle type.

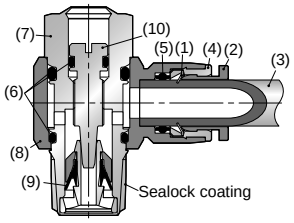


Specifications

Fluid medium	Air
Operating pressure range	0.1 to 0.9 MPa
Check valve opening pressure	0.05 MPa
Operating temp. range	0 to 60°C (No freezing)

Sectional drawing

Elbow type: JSDC



No,	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release-ring	POM
(3)	Tube	Polyurethane, Nylon, etc
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	O-ring	NBR
(7)	Metallic body (*1)	Nickel-plated brass
(8)	Resin body	PBT
(9)	Diaphragm	HNBR
(10)	Needle	Nickel-plated brass

*1. Metallic body with M3 thread is made of special stainless steel (Austenite or ferritic stainless steel).
*2. Gasket for metric or UNF thread : SUS304+NBR or SPCC+NBR for standard spec. POM for clean-room packaging.

RoHS2 (2011/65/EU+EU2015/863) compliant

Type	Model code JSDCøD-R[5][6]	Applicable cylinder tube I.D. (mm)	Model code JSDCøD-R[5]U	Applicable cylinder tube I.D. (mm)
Elbow JSDC  øD R	JSDC3-M3[5][6]	ø16	JSDC1/8-U10[5]U	max. ø20
	JSDC3-M5[5][6]	ø20	JSDC5/32-U10[5]U	max. ø20
	JSDC4-M3[5][6]	ø16	JSDC5/32-N1[5]U	max. ø32
	JSDC4-M5[5][6]	ø20	JSDC1/4-U10[5]U	max. ø20
	JSDC4-01[5][6]	ø32	JSDC1/4-N1[5]U	max. ø32
	JSDC6-M5[5][6]	ø20	JSDC1/4-N2[5]U	max. ø40
	JSDC6-01[5][6]	ø32	JSDC1/4-N3[5]U	max. ø63
	JSDC6-02[5][6]	ø40	JSDC5/16-N1[5]U	max. ø32
	JSDC6-03[5][6]	ø63	JSDC5/16-N2[5]U	max. ø40
	JSDC8-01[5][6]	ø32	JSDC5/16-N3[5]U	max. ø63
	JSDC8-02[5][6]	ø40	JSDC5/16-N4[5]U	max. ø80
	JSDC8-03[5][6]	ø63	JSDC3/8-N2[5]U	max. ø40
	JSDC8-04[5][6]	ø80	JSDC3/8-N3[5]U	max. ø63
	JSDC10-02[5][6]	ø40	JSDC3/8-N4[5]U	max. ø100
	JSDC10-03[5][6]	ø63	JSDC1/2-N3[5]U	max. ø63
	JSDC10-04[5][6]	ø100	JSDC1/2-N4[5]U	max. ø100
	JSDC12-03[5][6]	ø63		
	JSDC12-04[5][6]	ø100		
	JSDC1/8-M3[5][6]	ø16		
	JSDC1/8-M5[5][6]	ø20		
	JSDC1/4-M5[5][6]	ø20		
	JSDC1/4-01[5][6]	ø32		
	JSDC1/4-02[5][6]	ø40		
	JSDC5/16-01[5][6]	ø32		
	JSDC5/16-02[5][6]	ø40		
	JSDC5/16-03[5][6]	ø63		
	JSDC3/8-02[5][6]	ø40		
	JSDC3/8-03[5][6]	ø63		

Type	Model code JSDSøD-R[5][6]	Applicable cylinder tube I.D. (mm)	Model code JSDSøD-R[5]U	Applicable cylinder tube I.D. (mm)
Free JSDS  øD R	JSDS3-M3[5][6]	ø16	JSDS1/8-U10[5]U	max. ø20
	JSDS3-M5[5][6]	ø20	JSDS5/32-U10[5]U	max. ø20
	JSDS4-M3[5][6]	ø16	JSDS5/32-N1[5]U	max. ø25
	JSDS4-M5[5][6]	ø20	JSDS1/4-U10[5]U	max. ø20
	JSDS4-01[5][6]	ø25	JSDS1/4-N1[5]U	max. ø32
	JSDS6-M5[5][6]	ø20	JSDS1/4-N2[5]U	max. ø40
	JSDS6-01[5][6]	ø32	JSDS1/4-N3[5]U	max. ø63
	JSDS6-02[5][6]	ø40	JSDS5/16-N1[5]U	max. ø32
	JSDS8-01[5][6]	ø32	JSDS5/16-N2[5]U	max. ø40
	JSDS8-02[5][6]	ø40	JSDS5/16-N3[5]U	max. ø63
	JSDS8-03[5][6]	ø63	JSDS5/16-N4[5]U	max. ø80
	JSDS10-02[5][6]	ø40	JSDS3/8-N2[5]U	max. ø42
	JSDS10-03[5][6]	ø63	JSDS3/8-N3[5]U	max. ø63
	JSDS12-03[5][6]	ø63	JSDS3/8-N4[5]U	max. ø100
	JSDS12-04[5][6]	ø100	JSDS1/2-N3[5]U	max. ø63
	JSDS1/8-M3[5][6]	ø16	JSDS1/2-N4[5]U	max. ø100
	JSDS1/8-M5[5][6]	ø20		
	JSDS1/4-M5[5]	ø20		
	JSDS1/4-01[5][6]	ø32		
	JSDS1/4-02[5][6]	ø40		
	JSDS5/16-01[5][6]	ø32		
	JSDS5/16-02[5][6]	ø40		
	JSDS5/16-03[5][6]	ø63		
	JSDS3/8-02[5][6]	ø40		
	JSDS3/8-03[5][6]	ø63		

Notes
*1. For [5] in model code, please select a control direction code, "A" for Meter-out and "B" for Meter-in control.
*2. Applicable cylinder tube I.D. is based on the supply air pressure at 0.5MPa and cylinder speed at 500mm/sec.

CAD data is available at PISCO website.

Packaging specifications
1 pc. /bag

Options

Code	[6] : -C	[6] : W	[6] : W-C
Specifications	Clean-room package	Light-gray	Light-gray + Clean-room package

Orifice Fitting

Push-in fitting with fixed flow rate orifice

⚠Safety instructions for this product
Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

P (1) C (2) 6 (3) – 01 (4) (5) – 1.0 (6)

(1) Tube Fitting

(2) Type

Code	C	L
Type	Straight	Elbow

(3) Tube dia. (øD)

	mm size (mm)			inch size (inch)	
Code	4	6	8	5/32	1/4
Tube O.D.	ø4	ø6	ø8	ø5/32	ø1/4

(4) Thread size (R)

	Metric thread	Taper pipe thread	Unified fine thread	NPT
Code	M5M	01	U10M	N1
Thread size	M5×0.8	R1/8	10-32UNF	NPT1/8

* M5M and U10M are only for mini type (Tube O.D.: 4, 6mm, 5/32" or 1/4"), and 01 and N1 are only for standard type.

(5) Wrench size specification

Code	No code	U
Wrench size spec.	mm spec.	inch spec.

(6) Orifice bore

Code (Orifice bore (mm))	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
Effective sectional area (mm^2)	0.006	0.02	0.05	0.1	0.15	0.2	0.25	0.35	0.4	0.5	0.7	0.85	1.0	1.15	1.45	1.65	1.85	2.1	2.3	2.5

* Orifice bore of mini type is available only up to dia. 1.0 mm. Dia. 8 mm O.D. tube fitting cannot select dia. 0.1 or dia.0.2mm orifice bores.

Characteristics

Lower price than needle valve.

Compact design makes it possible to be installed in a small space.

Orifice bore: ø 0.1 and ø 0.2 mm are also available.

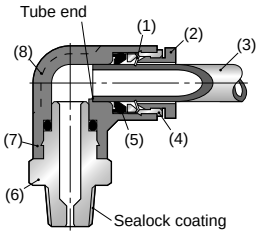
20 types of Orifice bore is selectable. (Min. ø0.1 to Max. ø2.0 mm in increment of 0.1 mm.)

Installable in tight space.

M5 thread and UNF thread in mini type fitting is best suitable for compact piping.

Sectional drawing

Elbow: PL



No.	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release-ring	POM
(3)	Tube	Polyurethane, Nylon, etc.
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	Metallic body	Nickel-plated brass
(7)	O-ring	NBR
(8)	Resin body	PBT

* The gasket material of M5 or UNF thread is SUS304 + NBR.

Specifications

Fluid medium	Air
Max. operating pressure	1.0 MPa
Max. vacuum	-100 kPa
Operating temp. range	0 to 60°C (No freezing)

RoHS2 (2011/65/EU+EU2015/863) compliant

Metric thread type (Mini type)

Type	Model code PCøD-RM-6	Type	Model code PLøD-RM-6
Straight PC	PC4-M5M-6	Elbow PL	PL4-M5M-6
	PC6-M5M-6		PL6-M5M-6

Unified thread type (Mini type)

Type	Model code PCøD-RM-6	Type	Model code PLøD-RM-6
Straight PC	PC5/32-U10M-6	Elbow PL	PL5/32-U10M-6
	PC1/4-U10M-6		PL1/4-U10M-6

Taper pipe thread type

Type	Model code PCøD-R-6	Model code PCøD-RU-6	Type	Model code PLøD-R-6	Model code PCøD-RU-6
Straight PC	PC4-01-6	PC5/32-N1U-6	Elbow PL	PL4-01-6	PL5/32-N1U-6
	PC6-01-6	PC1/4-N1U-6		PL6-01-6	PL1/4-N1U-6
	PC8-01-6			PL8-01-6	

Notes
* For 6 in model code, please select a orifice bore code.

CAD data is available at PISCO website.

Packaging specifications
10 pcs. /bag

Non-standard options (Refer to page 893 for details)
- Body color option (Light gray)
- Seal rubber options (FKM, EPDM, HNBR)
- Oil-free specification
- Copper free spec.
- Release ring color change (Red)

►Contact us for the price.

Ball Valve

Push-In Fitting Type Shut-off Valve (2 port valve)

⚠ Safety instructions for this product
Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

Model Designation (Example)

BV (1) C (2) 20 (3) – 06 (4) 01 (5) (6)

(1) Ball Valve

(2) Type

Code	C	LC	U	LU	G	LG	M	LM
Type	Straight	Elbow	Union Straight	Union Elbow	Unequal dia. Union Straight	Unequal dia. Union Elbow	Bulkhead Union Straight	Bulkhead Union Elbow

(3) Effective sectional area (Series)

Code	No code	20	60
Effective sectional area (mm^2)	10	20	60

(4) Port 1 size (øD, øD_1, R)

■ Tube dia.

		mm size (mm)						inch size (inch)					
Code	10 Series	3	4	6				1/8	5/32				
	20 and 60 series			06	08	10	12			1/4	5/16	3/8	1/2
Tube O.D.		ø3	ø4	ø6	ø8	ø10	ø12	ø1/8	ø5/32	ø1/4	ø5/16	ø3/8	ø1/2

■ Thread size

	Taper pipe thread				National pipe thread tapered			
Code	01	02	03	04	N1	N2	N3	N4
Thread size	R1/8	R1/4	R3/8	R1/2	NPT1/8	NPT1/4	NPT3/8	NPT1/2

(5) Port 2 size (øD_2, R)

■ See (4) for the Tube dia. and thread size.

* For 10 series and inch size, please enter a hyphen "-" before Port 2 size.

(6) Wrench size specification

Code	No code	U
Wrench size spec.	mm size	inch size

Model Designation of accessories for 20 and 60 Series

BV (1) LCP (2) 20 (3)

(1) Ball Valve

(2) Type

Code	UH	LCP	LO
Type	mounting bracket for Union type	Co-rotating stopper for Elbow type	Lockout

(3) Applicable series (No entry for Lockout.)

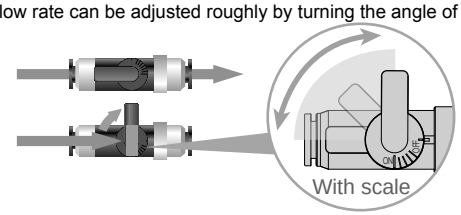
Code	20	60
Series	20 Series	60 Series

Characteristics

● Mini (10) series

Lever with scale allows for rough flow rate adjustment.

The flow rate can be adjusted roughly by turning the angle of the lever.



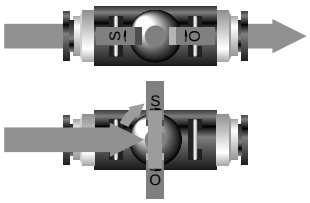
There is only little flow loss thanks to the large orifice diameter.

● 20 and 60 series

Possible to use with water.

PPS used for the body resin.

It provides a large effective sectional area commensurate with the connecting tube size.



● Optional for 20 and 60 Series

Adding optional items will make it even more convenient.

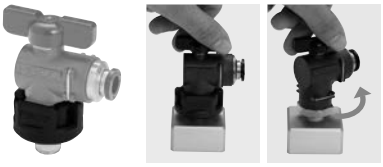
Environmentally friendly recycled materials are used.

● Mounting bracket for Union type

The valve is fixed to improve the stability of handle operation.
Piping is stable and work efficiency is improved.

● Co-rotating stopper for Elbow type

Prevents co-rotation when the body rotates in conjunction with the handle.
Piping position can be adjusted every 15°



● Lockout

Prevents erroneous operations by workers
It can be installed on the valve handle regardless of the handle position.
The handle position can be visually recognized through semi-transparent lockout cover.

Lock with a padlock or cable ties (*).
* Please prepare by yourself.
Padlock shackle diameter: 4.5 mm or less.

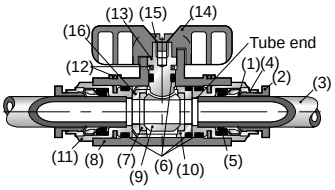
Specifications

Series	10	20	60
Fluid medium	Air	Air, water (conditional*)	
Max. operating pressure	0.7 MPa	0.9 MPa	
Max. vacuum	-100 kPa		
Operating temp. range	0 to 60°C (No freezing)		
Effective sectional area	10 mm²	20 mm²	60 mm²

⚠ Warning:
* Make sure to follow the instructions below when the fluid medium is water.
1. Surge pressure must be controlled lower than max. operating pressure when using water as a fluid medium.
2. Tap water in Japan, which is soft water (low mineral content) can be used. Carry out the evaluation under an actual operating condition for using other kind of water.
3. Be sure to place Insert ring (WR) into the tube edge when using water as a fluid medium.

Sectional drawing

20 and 60 series
Union straight:
BVU (Handle: Opened)



No,	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release ring	POM
(3)	Tube	Polyurethane or nylon, etc.
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	O-ring	NBR
(7)	Ball seal	PTFE
(8)	Resin body	10 Series: PBT
		20 and 60 series: Glass fiber reinforced PPS
(9)	Ball	Nickel-plated brass
(10)	Ball support	Nickel-plated brass
(11)	Metallic body	Nickel-plated brass
(12)	Lock pin	Stainless steel
(13)	Stem	Nickel-plated brass
(14)	Cock	POM
(15)	Machine screw	Steel
(16)	Ball holder	Nickel-plated brass

RoHS2 (2011/65/EU+EU2015/863) compliant

Mini (10) series

Type	Model code BVUøD1-øD2
Union BVU 	BVU3-3
	BVU4-4
	BVU6-6
	BVU1/8-1/8
	BVU5/32-5/32

Type	Model code BVGøD1-øD2
Unequal Dia. Union Straight BVG 	BVG4-3
	BVG6-4

Type	Model code BVMøD1-øD2
Bulkhead Union Straight BVM 	BVM6-4
	BVM6-6

Type	Model code BVC R-øD	Model code BVC R-øDU
Straight BVC 	BVC01-3	BVCN1-1/8U
	BVC01-4	BVCN1-5/32U
	BVC01-6	

Type	Model code BVLC R-øD	Model code BVLC R-øDU
Elbow A BVLC 	BVLC01-3	BVLCN1-1/8U
	BVLC01-4	BVLCN1-5/32U
	BVLC01-6	

Type	Model code BVLCøD-R	Model code BVLCøD-RU
Elbow B BVLC 	BVLC3-01	BVLC1/8-N1U
	BVLC4-01	BVLC5/32-N1U
	BVLC6-01	

Type	Model code BVLUøD1-øD2
Union Elbow BVLU 	BVLU3-3
	BVLU4-4
	BVLU6-6
	BVLU1/8-1/8
	BVLU5/32-5/32

Type	Model code BVLGøD1-øD2
Unequal dia. Union Elbow BVLG 	BVLG3-4
	BVLG4-3
	BVLG4-6
	BVLG6-4

Type	Model code BVLMøD1-øD2
Bulkhead Union Elbow BVLM 	BVLM6-4
	BVLM6-6

Notes
*1. Release ring color : White for inch type 

CAD data is available at PISCO website.

Packaging specifications
1 pc. /bag

RoHS2 (2011/65/EU+EU2015/863) compliant

20 and 60 series

Type	Model code BVU[3]-øD₁øD₂
Union BVU 	BVU20-0606
	BVU20-0808
	BVU60-1010
	BVU60-1212
	BVU20-1/4-1/4
	BVU20-5/16-5/16
	BVU60-3/8-3/8
	BVU60-1/2-1/2

Type	Model code BVG[3]-øD₁øD₂
Unequal Dia. Union Straight BVG 	BVG20-0806
	BVG60-1210
	BVG20-5/16-1/4
	BVG60-1/2-3/8

Type	Model code BVM[3]-øD₁øD₂	Model code BVM[3]-øD₁øD₂U
Bulkhead Union Straight BVM 	BVM20-0806	BVM20-5/16-1/4U
	BVM20-0808	BVM20-5/16-5/16U
	BVM60-1210	BVM60-1/2-3/8U
	BVM60-1212	BVM60-1/2-1/2U
		BVM20-1/4-1/4U

Type	Model code BVC[3]-øD R	Model code BVC[3]-øD-RU
Straight BVC 	BVC20-0601	BVC20-1/4-N1U
	BVC20-0602	BVC20-1/4-N2U
	BVC20-0603	BVC20-1/4-N3U
	BVC20-0801	BVC20-5/16-N1U
	BVC20-0802	BVC20-5/16-N2U
	BVC20-0803	BVC20-5/16-N3U
	BVC60-1002	BVC60-3/8-N2U
	BVC60-1003	BVC60-3/8-N3U
	BVC60-1004	BVC60-3/8-N4U
	BVC60-1202	BVC60-1/2-N2U
	BVC60-1203	BVC60-1/2-N3U
	BVC60-1204	BVC60-1/2-N4U

Type	Model code BVLC[3]-øD R	Model code BVLC[3]-øD-RU
Elbow BVLC 	BVLC20-0601	BVLC20-1/4-N1U
	BVLC20-0602	BVLC20-1/4-N2U
	BVLC20-0603	BVLC20-1/4-N3U
	BVLC20-0801	BVLC20-5/16-N1U
	BVLC20-0802	BVLC20-5/16-N2U
	BVLC20-0803	BVLC20-5/16-N3U
	BVLC60-1002	BVLC60-3/8-N2U
	BVLC60-1003	BVLC60-3/8-N3U
	BVLC60-1004	BVLC60-3/8-N4U
	BVLC60-1202	BVLC60-1/2-N2U
	BVLC60-1203	BVLC60-1/2-N3U
	BVLC60-1204	BVLC60-1/2-N4U

Type	Model code BVLU[3]-øD₁øD₂
Union Elbow BVLU 	BVLU20-0606
	BVLU20-0808
	BVLU60-1010
	BVLU60-1212
	BVLU20-1/4-1/4
	BVLU20-5/16-5/16
	BVLU60-3/8-3/8
	BVLU60-1/2-1/2

Type	Model code BVLG[3]-øD₁øD₂
Unequal dia. Union Elbow BVLG 	BVLG20-0608
	BVLG20-0806
	BVLG60-1012
	BVLG60-1210
	BVLG20-1/4-5/16
	BVLG20-5/16-1/4
	BVLG60-3/8-1/2
	BVLG60-1/2-3/8

Type	Model code BVLM[3]-øD₁øD₂	Model code BVLM[3]-øD₁øD₂U
Bulkhead Union Elbow BVLM 	BVLM20-0806	BVLM20-1/4-1/4U
	BVLM20-0808	BVLM20-5/16-1/4U
	BVLM60-1210	BVLM20-5/16-5/16U
	BVLM60-1212	BVLM60-1/2-3/8U
		BVLM60-1/2-1/2U

Accessories

Type	Model code
Mounting bracket for Union type BVUH 	BVUH20
	BVUH60

Type	Model code
Elbow type co-rotating stopper BVLCP 	BVLCP20
	BVLCP60

Type	Model code
Lockout BVLO 	BVLO

Notes

*1. Release ring color : White for inch type

*2. The material of the union type mounting bracket and the elbow type co-rotating stopper is PBT, and the material of the lockout is PP.

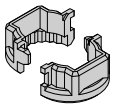
CAD data is available at PISCO website.

Packaging specifications

1 pc. /bag

1 set (2 pieces)/ bag: Elbow type stopper

►The elbow type co-rotating stopper is a set of 2 parts.



Valve

FREE SAMPLE GIVEAWAY

PISCO P-set

The P-Set Series is designed and engineered with a tamper-proof design that prohibits unauthorized adjustments to pressure settings, thereby ensuring optimal safety and reliability.
Their compact construction facilitates installation in confined spaces, making them particularly suitable for challenging environments.
The fixed pressure and constant flow configuration guarantees consistent performance while significantly reducing the risk of user error, ultimately enhancing operational safety and eliminating downtime.

Pre-set Pressure Regulator

The pressure setting is factory set and cannot be changed or adjusted, which provides operators a safe and continuous performance.

Constant Flow Speed Controller

Perfect for mass-produced specialty machinery, as it enables speed control without adjustments.
Selectable orifice size from ϕ0.1 mm to ϕ2.0 mm.

Fixed Orifice Joint (Tamper-Proof)

Push-in fitting type fixed orifice joint to control air flow.
Selectable orifice size from 0.1 to 2.0 mm.

Slot-head Speed Controller

Prevents unintended manual adjustments.
Use a screwdriver adjustment for applications that need occasional speed adjustments.

Sample Request Form

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