Pressure Regulator Push-lock type

PISCO®

https://www.pisco.co.jp/en/

Push-in fitting type pressure control valve with relief mechanism and push-lock knob.

⚠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)

RV (1) C (2) P (3) 6 (4) – 01 (5) (6)

(1) Pressure Regulator Push-lock type

(2) Type

Code	C	U	CM	UM
Type	Elbow	Union	Gauge Mounted Elbow	Gauge Mounted Union

(3) P: Push-lock type

(4) Tube dia. (øD, øD1, øD2)

	mm size (mm)			inch size (inch)			
Code	4	6	8	5/32	3/16	1/4	5/16
Tube O.D.	ø4	ø6	ø8	ø5/32	ø3/16	ø1/4	ø5/16
Pressure indication unit	MPa			psi			

* Inch size (gauge indicating in psi) is a model for overseas markets.

(5) Thread size (R)

	Metric thread	Taper pipe thread		Unified fine thread	NPT	
Code	M5	01	02	U10	N1	N2
Size	M5×0.8	R1/8	R1/4	10-32UNF	NPT1/8	NPT1/4

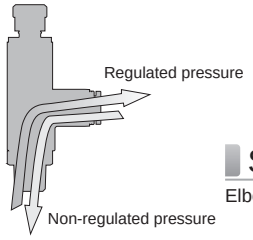
* Please select tube dia. from (4) for RVUP and RVUMP.

(6) Wrench size specification

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

Characteristics

- **The push-lock type knob makes fixing and adjusting pressure easy.**
  Once it is set, the set pressure will not change due to vibrations.
- **New design enables about 1.3 times higher flow than the previous models. The set pressure fluctuation range reduced.**
- **Compact design and easy layout.**
- **A relief mechanism is incorporated.**
- **Equipped with check function.**
  It can be used as check type regulator by installing between a solenoid valve and an actuator.
- **Gauge mount type is available.**

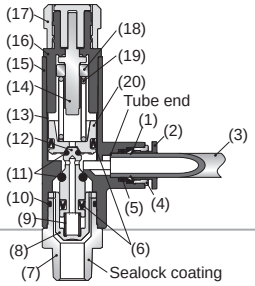


Specifications

	mm size	inch size
Fluid medium	Air	
Operating pressure range	0 to 1.0MPa	0 to 145 psi
Pressure setting range	0.1 to 0.8MPa	14.5 to 116 psi
Indicated pressure range	0 to 0.8MPa	0 to 116 psi
Accuracy (gauge)	±5%F.S.	
Operating temp. range	0 to 60°C (No freezing)	

Sectional drawing

Elbow: RVCP

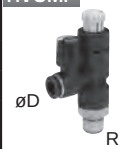


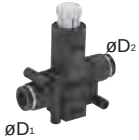
No,	Parts	Material
(1)	Lock claws	Stainless steel
(2)	Release-ring	POM
(3)	Tube	Polyurethane, Nylon, etc
(4)	Guide ring	Nickel-plated brass
(5)	Elastic sleeve	NBR
(6)	V-packing	NBR
(7)	Metallic body	Nickel-plated brass
(8)	Valve guide	POM
(9)	Poppet spring	Stainless steel
(10)	O-ring	NBR
(11)	O-ring	HNBR
(12)	Poppet	POM
(13)	Liner	Nickel-plated brass
(14)	Adjusting screw	Nickel-plated brass
(15)	Resin body	Glass-reinforced PBT
(16)	Bonnet	Glass-reinforced POM
(17)	Adjusting knob	POM
(18)	Adjusting nut	SPCC (Electroless zinc plated)
(19)	Adjusting spring	Piano wire
(20)	Piston	POM or Glass-reinforced POM

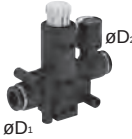
* The gasket material of M5 or UNF thread is SPCC + NBR.

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

Type	Model code RVCPøD-R	Model code RVCPøD-RU
Elbow RVCP 	RVCP4-M5	RVCP5/32-U10U
	RVCP4-01	RVCP3/16-U10U
	RVCP6-M5	RVCP1/4-U10U
	RVCP6-01	RVCP5/32-N1U
	RVCP6-02	RVCP3/16-N1U
	RVCP8-01	RVCP1/4-N1U
	RVCP8-02	RVCP5/16-N1U
		RVCP3/16-N2U
		RVCP1/4-N2U
		RVCP5/16-N2U

Type	Model code RVCMPøD-R	Model code RVCMøD-RU
Elbow with gauge RVCMP 	RVCMP4-M5	RVCMP5/32-U10U
	RVCMP4-01	RVCMP5/32-N1U
	RVCMP6-M5	RVCMP1/4-N1U
	RVCMP6-01	RVCMP5/16-N1U
	RVCMP6-02	RVCMP1/4-N2U
	RVCMP8-01	RVCMP5/16-N2U
	RVCMP8-02	

Type	Model code RVUPøD1-øD2
Union RVUP 	RVUP4-4
	RVUP6-4
	RVUP6-6
	RVUP8-6
	RVUP8-8
	RVUP5/32-5/32
	RVUP1/4-5/32
	RVUP1/4-1/4
	RVUP5/16-1/4
	RVUP5/16-5/16

Type	Model code RVUMPøD1-øD2
Union with gauge RVUMP 	RVUMP4-4
	RVUMP6-4
	RVUMP6-6
	RVUMP8-6
	RVUMP8-8
	RVUMP5/32-5/32
	RVUMP1/4-5/32
	RVUMP1/4-1/4
	RVUMP5/16-1/4
	RVUMP5/16-5/16

Notes

*1. Inch size (gauge indicating in psi) is a model for overseas markets.

*2. Release-ring color is white for inch-size products.

CAD data is available at PISCO website.

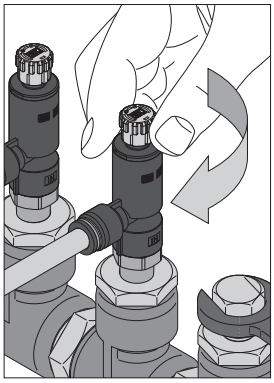
Packaging specifications

1 pc. /bag

How to adjust pressure

(1) Increasing pressure

Turn the pressure adjusting knob of Pressure Regulator clockwise from the fully open position to increase the pressure. Make sure to push down the pressure adjusting knob to lock it at the desired pressure so that the pressure setting cannot be changed.



(2) Reducing pressure

If the adjusting knob of Pressure Regulator is turned too far (if the pressure is too high), turn it counterclockwise to activate the relief mechanism and reduce the pressure below the desired level. Then, make the same adjustment as in (1). Make sure to push down the pressure adjusting knob to lock it at the desired pressure so that the pressure setting cannot be changed.