



# Regulator / Quick Exhaust Valves

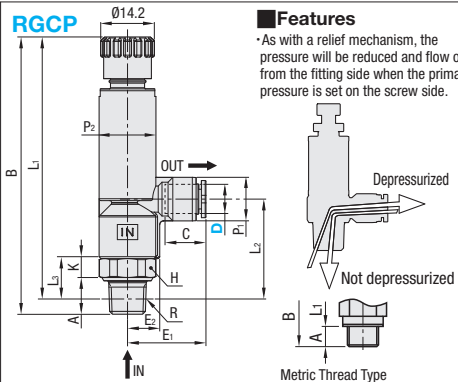
Elbow / Unions / Elbow with Gauge / Unions with Gauge

## Elbow



RoHS 10

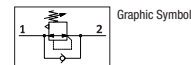
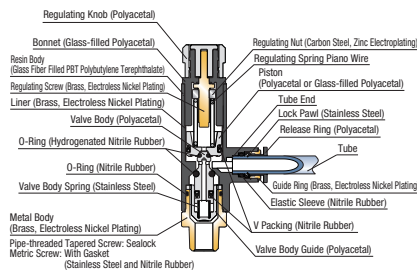
## RGCP



### Features

As with a relief mechanism, the pressure will be reduced and flow out from the fitting side when the primary pressure is set on the screw side.

## Structure Diagram (Elbow: RGCP)



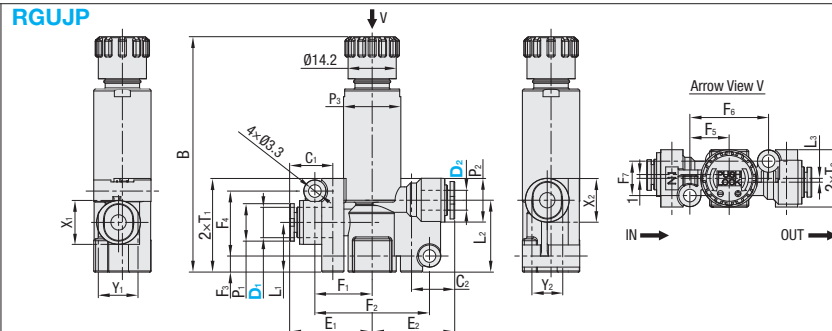
Part Number		Nominal	R	A	B		L1		L2	L3	P1	P2	C	E1	E2	Opposite Side H	K	Mass (g)	Unit Price 1 - 9 pc(s).	Volume Discount Rate 10~20					
Type	Tube O.D. (mm) D				Max	Min	Max	Min																	
RGCP	4	M5	M5×0.8	3	70	67.4	67	64.4	24.2	8.5	11.5	15	11	20.7	8.5	14	6	26							
		1	R1/8	8	71.5	68.9	67.5	64.9	24.7	9			5												
	6	M5	M5×0.8	3	70	67.4	67	64.4	24.2	8.5			11.6	21.1			8.5				17	29.8	10.5	17	6
		1	R1/8	8	71.5	68.9	67.5	64.9	24.7	9															
	8	1	R1/4	11	78.2	75.6	72.2	69.6	29	11	15.5	19	17	29.8	10.5	17	6	46							
		2	R1/8	8	71.5	68.9	67.5	64.9	24.7	9			15	27.7	10.5	14	5	29							

## Unions

## RGUJP



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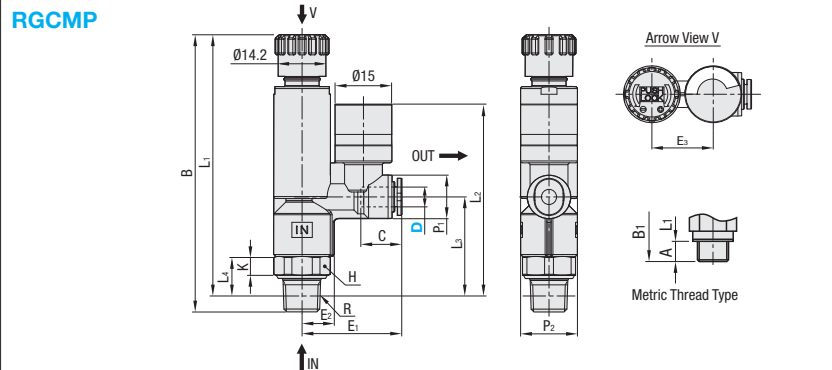
Part Number	D2	B		L1	L2	L3	P1	P2	P3	C1	C2	E1	E2	F1	F2	F3	F4	F5	F6	F7	T1	T2	X1	X2	Y1	Y2	Mass (g)	Unit Price 1~9 pc(s)	Volume Discount Rate 10~20	
Type	D1	Max	Min																											
RGUJP	4	4								11		21.6	21.6											9.8	9.8	7.8	7.8	19		
	6	4	61.6	59	13	18.8	1	11.5	11.5	15	11.6	11.6	22	22	15	30	4.2	17	10.3	20.6	9	24.5	15	11.8	9.8	9.8	9.8	20		
	6	6																												
	8	6	65.7	63.1	15	22.5	-	15.5	15.5	19	18.1	17	28.6	28.6	19.8	39.6	4	21.5	11.7	23.4	13	28.4	19	-	-	-	-	32		
																												33		

## Elbow with Gauge

## RGCMP



RoHS 10



Part Number		Nominal	R	A	B		L1		L2	L3	L4	P1	P2	C	E1	E2	E3	Opposite Side H	K	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
Type	Tube O.D. (mm) D				Max	Min	Max	Min														
RGCMP	4	M5	M5×0.8	3	70	67.4	67	64.4	48.7	24.2	8.5	11.5	15	11	26.3	8.5	16.2	14	6	29		
		1	R1/8	8	71.5	68.9	67.5	64.4	49.2	24.7	9			5								
	6	M5	M5×0.8	3	70	67.4	67	64.4	48.7	24.2	8.5	11.6	26.7	8.5	17.7	17	6	49				
		1	R1/8	8	71.5	68.9	67.5	64.9	49.2	24.7	9			5								
	8	1	R1/4	11	78.2	75.6	72.2	69.6	56.3	29	11	15.5	19	17	30	10.5	17.7	17	6	49		
		2	R1/8	8	71.5	68.9	67.5	64.9	52	24.7	9			15	28.4	8.5	16.2	14	5	31		



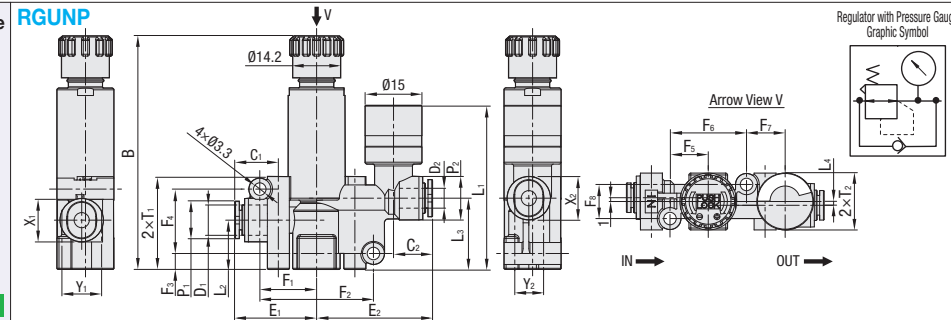
Ordering Example  
Part Number - Nominal: D2  
RGCMP4 - M5  
RGCP4 - M5

## Unions with Gauge

## RGUNP



RoHS 10



### Precautions for Use

Do not use the regulator in such a way that the pressure exceeds the preset level due to large pressure fluctuations on the secondary side. This product is not designed as a relief valve, and using it as one may cause equipment damage or malfunction. If using it in this way, please install additional safety mechanisms.

### Precautions for Use

- Set the pressure by turning the regulating knob in the upward direction (clockwise). The pressure cannot be set accurately if the regulating knob is turned in the downward direction (counterclockwise).
- Do not turn the regulating knob counterclockwise from a fully open position, or too far clockwise from a fully open position. Doing so may cause damage to the regulating knob or the regulator valve itself. It can also increase the torque on the regulating screw and regulating knob.
- The regulating knob releases when pulled up and locks when pushed down. Always lock the knob after adjusting the pressure. Failure to lock the regulating knob means the knob may turn, causing the pressure to change.
- When you press down the regulating knob, it can sometimes stop partway between the locked and unlocked positions depending on how far round it is rotated. When this happens, the knob is not completely locked. Please ensure that the regulating knob is fully pushed down to the locked position.
- Trying to force the regulating knob to turn while it is in the locked position may cause damage to the locking mechanism.
- For models with a gauge, the gauge can be oriented in any direction. Applying excessive force to the gauge cap can result in damage to the gauge and cause issues with gauge readings. Please hold the gauge close to the base when turning it.
- The pressure gauge is accurate to ±5% (FS). If greater accuracy is required, please check the pressure using a separate pressure gauge and adjust accordingly.
- When air is released from the secondary side, the air flow may cause resonance. Avoid releasing air on the secondary side for prolonged periods of time, as this poses a risk of internal damage or other issues.

### Pressure Adjustment Method

- Adjusting the pressure  
Release the lock by pulling the regulating knob upward before adjusting the pressure. Do not apply excessive force to the regulating knob during this time, as doing so may cause damage.
- Increasing the pressure  
Turn the regulating knob clockwise from the fully open position to increase the pressure. When the desired pressure is reached, be sure to push the regulating knob down to lock it in place so that the pressure setting does not change.
- Decreasing the pressure  
If the regulator knob is turned too far (if the pressure is too high), turning it counterclockwise will activate the relief mechanism and decrease the pressure. Following this, adjust as described in "2. Increasing the pressure." When the desired pressure is reached, be sure to push the regulating knob down to lock it in place so that the pressure setting does not change.



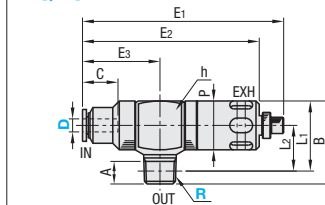
Specifications	
Applicable Fluid	Air
Operating Temp. Range	0 ~ 60°C
Operating Pressure Range	0 ~ 1MPa
Set Pressure Range	0.1~0.8MPa
Indicated Pressure Range	0~0.8MPa
Gauge Accuracy	±5% (Full Scale *)
*Displayed position differences when the displayed pressure has suddenly changed from 0 to Max. value of 0.8MPa.	

## Quick Exhaust Valves - Standard (With Exhaust Throttle)



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## EQXCE



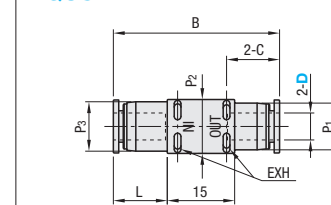
Material: Body: Aluminum  
Needle: Brass (Electroless Nickel Plating)  
Element: Polyvinyl Formal

## Quick Exhaust Valves - Straight



RoHS 10

## EQUUS



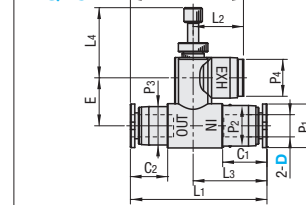
Material: Polybutylene Terephthalate

## Quick Exhaust Valves - Unions (With Exhaust Throttle)



RoHS 10

## EQEJ



Material: Polybutylene Terephthalate  
Needle: Brass (Electroless Nickel Plating)  
Element: Polyvinyl Formal

## Quick Exhaust Valves - Standard

Part Number		R (PT)	Nominal	A	B	L <sub>1</sub>	L <sub>2</sub>	P	C	E <sub>1</sub>		E <sub>2</sub>	E <sub>3</sub>	Opposite Side H	Effective Sectional Area (mm <sup>2</sup> )		Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount 10-20
Type	Tube O.D. (mm D)									Max	Min				IN→OUT	OUT→EX			
EQXCE	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		
	6	1 (R1/8)	1	8	25.5	21.5	14	15	11.7	67	62.1	54.6	24.1	15	6	8	23		
		2 (R1/4)	2	11	29	25	16	18	11.7	77.4	71.6	63.1	28.1	18	9	15	35		
	8	1 (R1/8)	1	8	29	25	16	18	18.2	82.7	76.9	68.4	33.4	18	12	15	39		
		2 (R1/4)	2	11	31	25	16	18	18.2	82.7	76.9	68.4	33.4	18	12	15	41		

## Quick Exhaust Valves - Straight

Part Number Type	Tube O.D. (mm) D	B	L	P1	P2	P3	C	Effective Sectional Area (mm²)		Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
								IN→OUT	OUT→EX			
EQUUS	4	34.6	11	8.4	10	9	11	1.8	1.8	3.3		
	6	37	12	10.4	12	11	11.6	4	4	4.9		

## Quick Exhaust Valves Unions (With Exhaust Throttle)

Part Number Type	Tube O.D. (mm) D	B	L1	L2	L3	Max/Min	P1	P2	P3	P4	C1	C2	E	Effective Sectional Area (mm²)		Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
														IN→OUT	OUT→EX			
EQEJ	4	27.3	34.6	11.2	18.5	19.5	14.5	9.8	9	8.4	9	11	8.6	1.8	1.7	7.2		
	6	29	37	12	20	19	14	11.8	11	10.4	11	12	10	4	2.8	9.2		



Ordering Example  
Part Number - R(PT) - Nominal  
RGUNP4 - 1 - 1  
EQXCE4 - 1 - 1



For orders larger than indicated quantity, please check with WOS.

### Features / Specifications

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

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

### PRECAUTIONS

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

