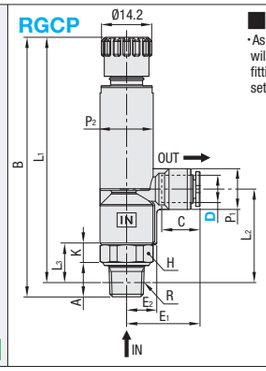
Regulator / Quick Exhaust Valves

Elbow / Unions / Elbow with Gauge / Unions with Gauge

■Elbow

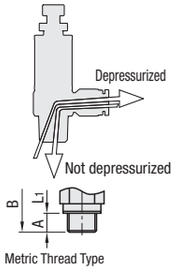
RoHS10

RGCP



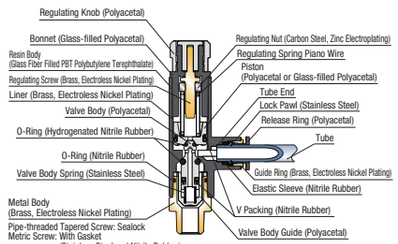
■Features

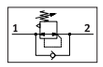
・As with a relief mechanism, the pressure will be reduced and flow out from the fitting side when the primary pressure is set on the screw side.



Metric Thread Type

■Structure Diagram (Elbow: RGCP)





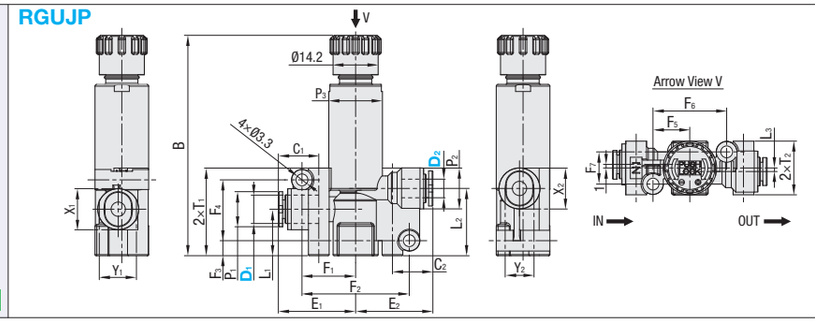
Graphic Symbol

Part Number Type	Tube O.D. (mm) D	Nominal	R	A	B Max	B Min	L1 Max	L1 Min	L2	L3	P1	P2	C	E1	E2	Opposite Side H	K	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
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			6			
		1	R1/8	8	71.5	68.9	67.5	64.9	24.7	9							5			
		2	R1/4	11	78.2	75.6	72.2	69.6	29	11	15.5	19	17	29.8	10.5	17	6	46		
	8	1	R1/8	8	71.5	68.9	67.5	64.9	24.7	9		15	18.1	27.7	8.5	14	5	29		
		2	R1/4	11	78.2	75.6	72.2	69.6	29	11		19		29.7	10.5	17	6	46		

■Unions

RoHS10

RGUJP

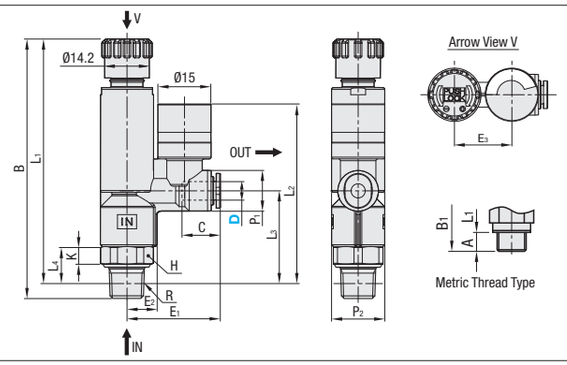


Part Number Type	D1	D2	B Max	B Min	L1	L2	L3	P1	P2	P3	C1	C2	E1	E2	F1	F2	F3	F4	F5	F6	F7	T1	T2	X1	X2	Y1	Y2	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
RGUJP	4	4	61.6	59	13	18.8	1	11.5	11.5	15	11	11	21.6	21.6	15	30	4.2	17	10.3	20.6	9	24.5	15	9.8	9.8	7.8	7.8	19		
	6	4									11.6	11.6	22	22										11.8	9.8	9.8	9.8	20		
		6																							11.8		9.8			
	8	6	65.7	63.1	15	22.5	-	15.5	15.5	19	18.1	17	28.6	28.7	19.8	39.6	4	21.5	11.7	23.4	13	28.4	19	-	-	-	-	32		
		8										18.1		28.6														33		

■Elbow with Gauge

RoHS10

RGCMP



Part Number Type	Tube O.D. (mm) D	Nominal	R	A	B Max	B Min	L1 Max	L1 Min	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
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	64.9	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				6			
		1	R1/8	8	71.5	68.9	67.5	64.9	49.2	24.7	9								5			
		2	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		
	8	1	R1/8	8	71.5	68.9	67.5	64.9	52	24.7	9		15	18.1	28.4	8.5	16.2	14	5	31		
		2	R1/4	11	78.2	75.6	72.2	69.6	56.3	29	11		19		29.9	10.5	17.7	17	6	49		

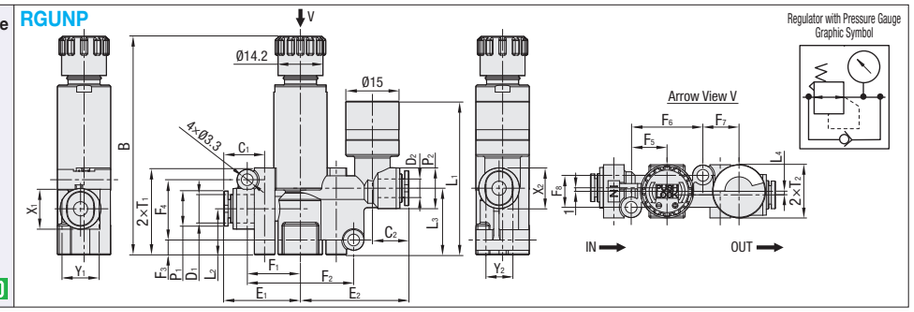
Ordering Example

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

■Unions with Gauge

RoHS10

RGUNP



Part Number Type	No.	D1	D2	B Max	B Min	L1	L2	L3	L4	P1	P2	P3	C1	C2	E1	E2	F1	F2	F3	F4	F5	F6	F7	F8	T1	T2	X1	X2	Y1	Y2	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~30
RGUNP	4	4	4	61.6	59	43.3	13	18.8	1	11.5	11.5	15	11	11	21.6	30.6	15	30	4.2	17	10.1	20.2	10.2	9	24.5	15	9.8	9.8	7.8	7.8	23		
	6-4	6											11.6	22		31											11.8	9.8	9.8				
	6		6											11.6														11.8		9.8			
	8-6	8		65.7	63.1	49.8	15	22.5	-	15.5	15.5	19	18.1	17	28.6	33	19.9	39.7	4.1	21.3	11.6	23.2	9.1	13	28.4	19	-	-	-	-	36		
	8		8											18.1		32.9																	

■Precautions for Use

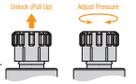
Do not use the regulator in such a way that the pressure exceeds the preset level due to large pressure fluctuations on the secondary side. This product is not designed as a relief valve, and using it as one may cause equipment damage or malfunction. If using it in this way, please install additional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

■Precautions for Use

1. 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).
2. 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.
3. 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.
4. 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.
5. Trying to force the regulating knob to turn while it is in the locked position may cause damage to the locking mechanism.
6. 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.
7. 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.
8. 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

1. 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.



2. 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.
3. 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.

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

■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)

RoHS10

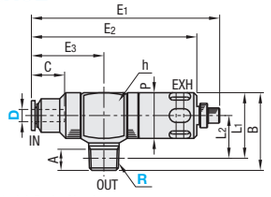
■Quick Exhaust Valves - Straight

RoHS10

■Quick Exhaust Valves - Unions (With Exhaust Throttle)

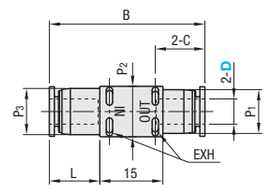
RoHS10

EQXCE



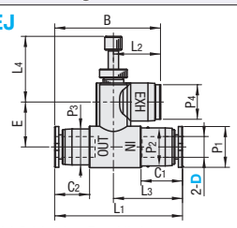
M Material: Body: Aluminum
Needle: Brass (Electroless Nickel Plating)
Element: Polyvinyl Formal

EQUS



M Material: Polybutylene Terephthalate

EQEJ



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

■Quick Exhaust Valves - Standard

Part Number Type	Tube O.D. (mm D	R (PT)	Nominal	A	B	L1	L2	P	C	E1 Max	E1 Min	E2	E3	Opposite Side H	Effective Sectional Area (mm²) IN→OUT	Effective Sectional Area (mm²) OUT→EX	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
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		29					77.4	71.6	63.1	28.1	18	9	15	35		
		2 (R1/4)	1	11	31	25	16	18									37		
	8	1 (R1/8)	1	8	29				18.2	82.7	76.9	68.4	33.4	18	12	15	39		
		2 (R1/4)	1	11	31	25	16	18									41		

■Quick Exhaust Valves - Straight

Part Number Type	Tube O.D. (mm)D	B	L	P1	P2	P3	C	Effective Sectional Area (mm²) IN→OUT	Effective Sectional Area (mm²) OUT→EX	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
EQUS	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		

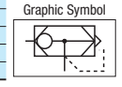
For orders larger than indicated quantity, please check with WOS.

■Features / Specifications

■Features: 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

Graphic Symbol



■Quick Exhaust ValvesUnions (With Exhaust Throttle)

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

Part Number Type	Tube O.D. (mm)D	B	L1	L2	L3	L4 Max	L4 Min	P1	P2	P3	P4	C1	C2	E	Effective Sectional Area (mm2) IN→OUT	Effective Sectional Area (mm2) OUT→EX	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~20
EQEJ	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		
	6	29	37	12	20	19	14	11.8	11	10.4	11	12	10	13	4	2.8	9.2		

Ordering Example

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

■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.