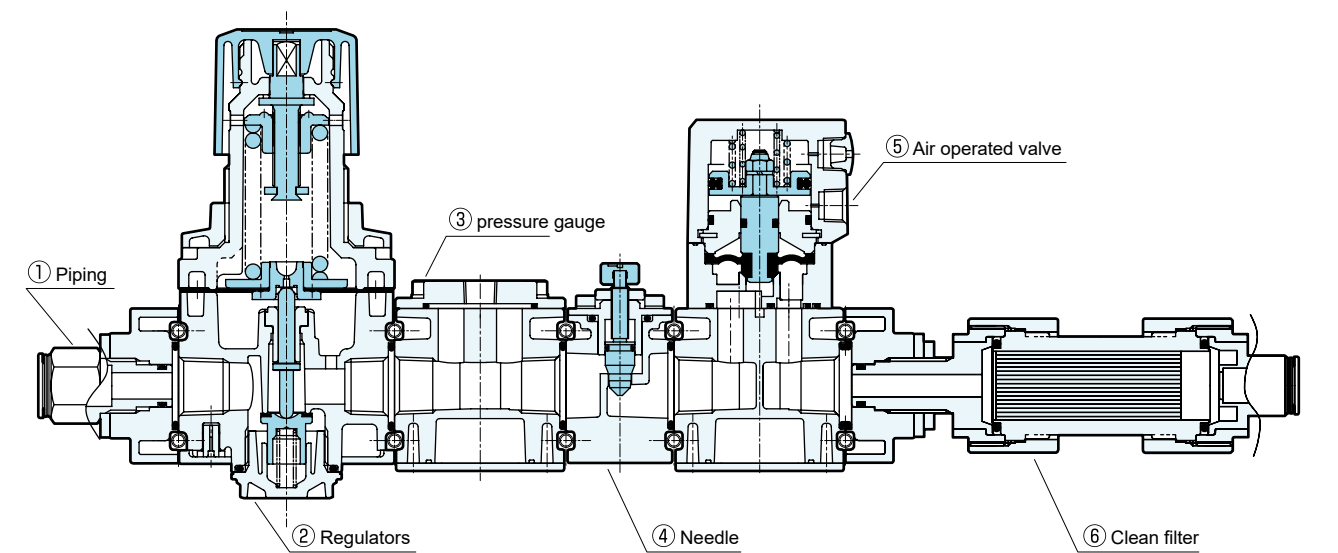
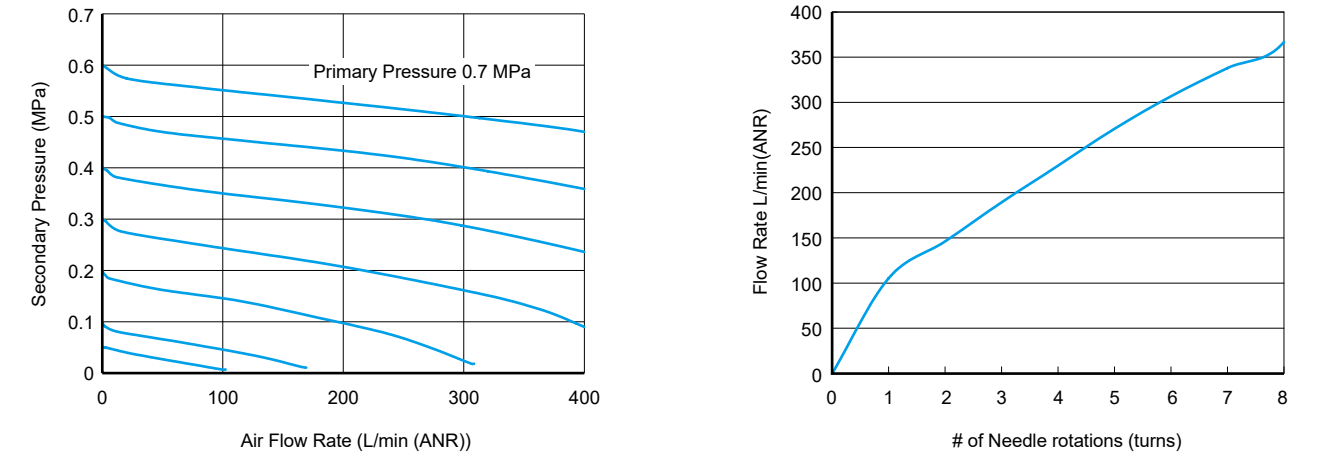




No.	Part Name		Fluid passage material
①	Piping		Aluminum alloy, Brass (nickeling), fluoro rubber, nitrile rubber, hydrogenated nitrile rubber
②	Regulator		Aluminum alloy, Zinc alloy, nitrile rubber, hydrogenated nitrile rubber, fluoro rubber, Polyacetal resin
③	Pressure gauge	Port only	Aluminum alloy, fluoro rubber
		G49D	Stainless steel, steel (chrome plating)
		PX1	Stainless steel, hydrogenated nitrile rubber
④	Needle		Aluminum alloy, Brass (nickeling), nitrile rubber, fluoro rubber
⑤	Air operated valve		Aluminum alloy, stainless steel, fluoro rubber, polypropylene, ethylene propylene rubber
⑥	Clean filter		Aluminum alloy, fluoro rubber, polypropylene, Urethane, polyamide

Flow Characteristics

- The Regulators' set pressure and the corresponding flow characteristics
- Dial value (needle position) and the corresponding flow characteristics



Note) Flow characteristics when the regulator, pressure gauge, needle valve, air operated valve, and filter are attached and the needle is fully open.



Pneumatic Components
To Use This Product Safely

Be sure to read this before use. For general pneumatic components precautions, see Intro 27 for details.

Individual Precautions : Clean Air Unit

At Design / Selection

1. Common

- WARNING**
- Use within the product's specific specification range.
 - This product is designed for industrial use. Do not use for medical purposes, or in any equipment or circuit that concerns human life.
 - Take measures to prevent physical harm or property damage in the event of breakdown of this product.
 - Design the pneumatic circuit after understanding the characteristics of compressed air.
 - For detailed cautions, refer to the catalog for each components.

2. Regulator

- WARNING**
- Output pressure exceeding the Regulators' set pressure could result in damage or faulty operation of the secondary side devices. Be sure to install a safety device.
 - As the Regulators may not always be usable with the secondary side sealed circuit or balance circuit, consult with CKD.
Depending on use, such as when back pressure rises, the set pressure may increase 0.2 MPa.

- CAUTION**
- When the primary pressure is released, the secondary pressure flows to the primary side.
If a problem occurs in another device due to the inflow of secondary side fluid to the primary side, provide a circuit to retain the pressure.
 - The setting range for the Regulators' secondary pressure should be within 85 % of that of the primary side. Otherwise, the pressure drop may increase.
 - When used in applications where the primary pressure is 0.7 MPa or more, keep the difference in primary and set pressure within 0.4 MPa.
Pulsation could occur if the difference in pressures is large or if secondary piping is large. If so, lower the primary side pressure or restrict the secondary line. Consult with CKD if the pulsation still continues.
 - Turning the knob in the L direction from the set pressure 0 activates the stopper and the knob does not turn.
Note that if torque is forcibly applied in the L direction, the knob may lock and become inoperable.

3. Needle

- CAUTION**
- This valve cannot be used as a stop valve that requires no leakage. Some leakage is allowed due to product specifications.

4. Air operated valve

- WARNING**
- This product cannot be used as an emergency shut-off valve.
The valves listed in this catalog are not designed as valves to ensure safety such as emergency cutoff valves. For such systems, please use the product after implementing separate, reliable safety measures.

- CAUTION**
- Regarding external pilot air
 - ① Drainage measures-Compressed air contains a large amount of condensate (water, oxidized oil, tar, and foreign matter). This is a factor that significantly reduces the reliability of the pneumatic components. For drainage measures, improve air quality by dehumidifying with an after cooler or dryer, removing foreign matter with a filter, and removing tar with a tar removing filter, etc.
 - ② Filter-For the filter to be installed, use a filter with a filter element of 5 μm or less.

5. Inline clean filter

- WARNING**
- Do not use this product in an atmosphere containing organic solvents or chemicals, etc., or where the product may come in contact with these substances. Not observing this could damage the polyamide housing.
- CAUTION**
- Do not flow over the max. processing flow rate.
Doing so may degrade the filtration accuracy and damage the element membrane.
 - This device cannot be used as an absolute filter (absolute Degree of filtration).
Filtration accuracy is 99.99 % within specified conditions. Do not use for applications where foreign matter is absolutely prohibited (e.g., direct blowing on wafers).
 - Alcohol is used in the manufacturing line of some parts of this product.
- * For precautions regarding the digital pressure sensor (PPX-R10N-6M-P12), refer to "Sensor/Controller (No. RJ-008AA)".

For precautions regarding mounting, installation, adjustment, operation, and maintenance, please refer to the CKD Component Products site (<https://www.ckd.co.jp/kiki/en/>) → 'model No.' → Instruction Manual.