

# CKD

We just don't have the man-hours.

Arranging individual components is a hassle

Machining takes time

No space for clean assembly

Not enough time for design

Lack of time to design

We need a reliable warranty.

Piping design is time-consuming.

No time to create drawings.

Not enough people for on-site assembly.

Worried about securing the desired flow rate.

Managing delivery times is difficult.

Struggling to select the right components.

Struggling the right components

Getting quotes is a pain.

Leak testing is a hassle.

lose one's way in selecting components

Not enough time to design



**We solve all of these problems!!**

## That's Fine Integrated Components Solution

A Breakthrough in Cleanroom Solutions

CKD Corporation  
CC-1163AA 1

**We solve these problems! !**

- Struggling to select the components
- Not enough time for design
- No space for clean assembly

## Clean unit

**F**ine **I**ntegrated **C**omponents **S**olution

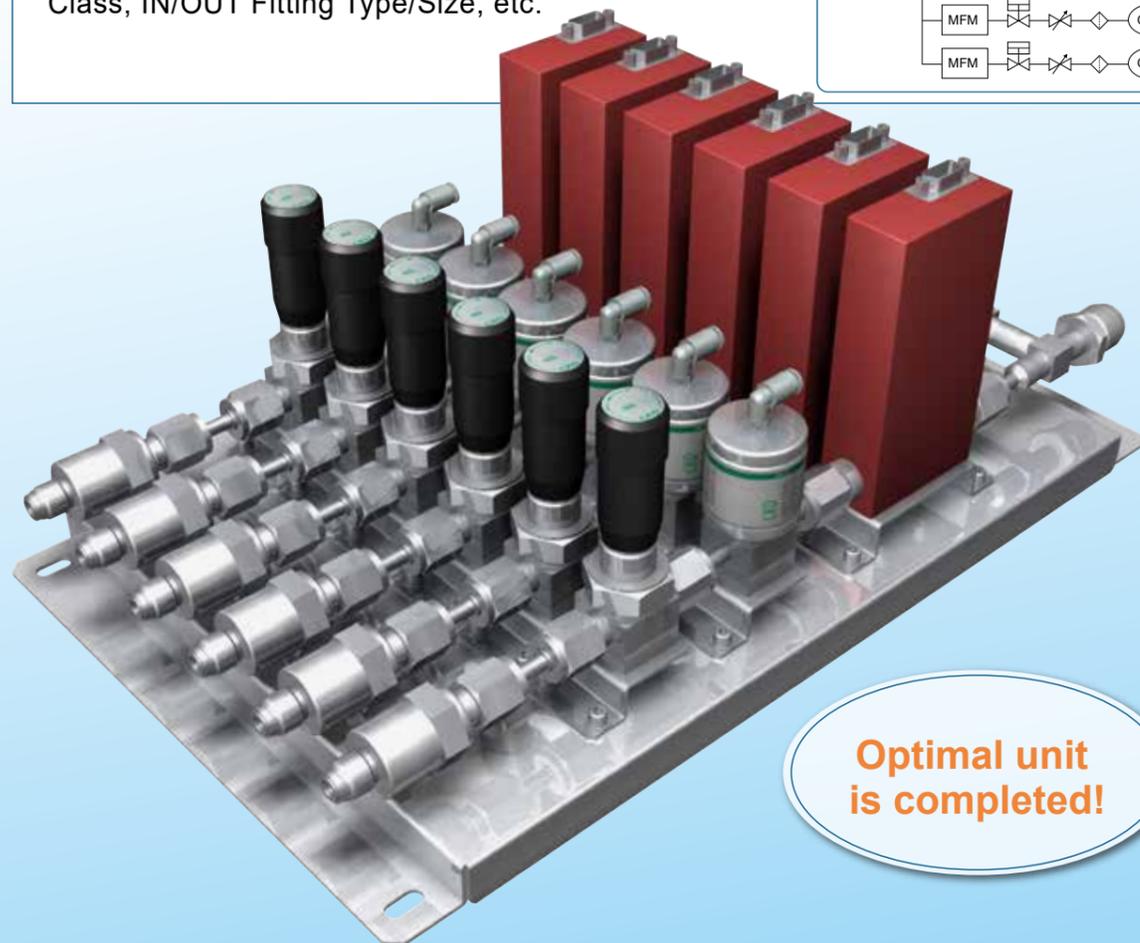
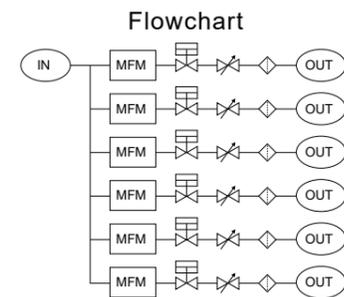
**A unit that builds on our proven track record of products for the semiconductor industry!**

**Just tell us your flow and specification requirements!**

### Check Item

#### [Specification Requirements]

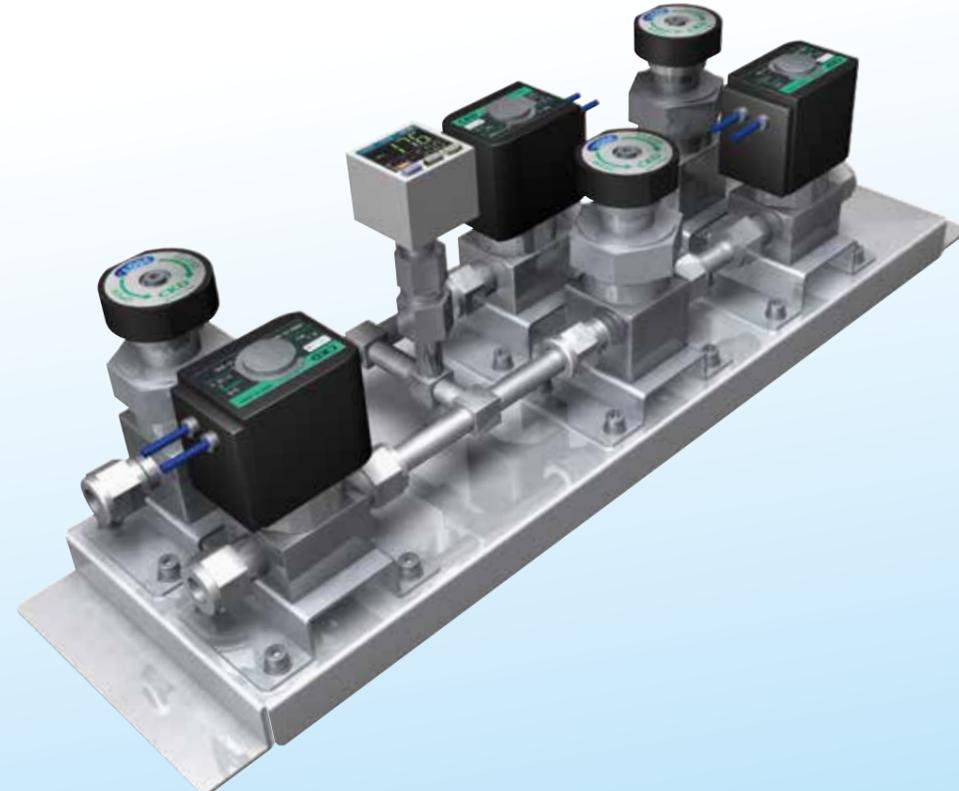
Fluid (Air, CDA, Nitrogen, Argon, Helium, Process Gas, Water, etc.), Pressure, Flow Rate, Size, Cleanliness Class, IN/OUT Fitting Type/Size, etc.



**Optimal unit is completed!**

### Customer benefits

- Design** Less time spent on selection, design and creating diagrams
- Procurement** Less time spent on invoices and delivery management, reduces the number of slips
- Manufacturing** Less time spent on machining, assembly and inspection = Just connect the IN/OUT piping!
  - The entire unit is guaranteed by CKD, not just the individual components!
  - Clean units can be procured without a clean room!



#### Application Examples

- N2 purge of hoops and stockers
- Dry air blow of lasers
- Helium purge of inspection equipment
- Flammable gas / N2 supply for film deposition systems



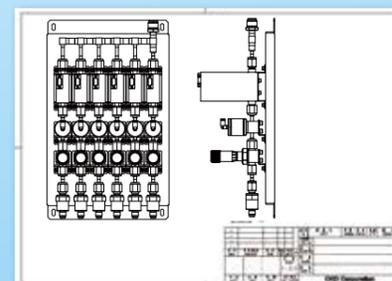
## Just leave it to CKD!!

CKD will configure the optimal clean unit based on the flow diagrams and specification requirements provided by the customer!

Selection & Design, then Submission of Specification Drawings

Agreement on Specifications & Order Placement

Shipment



Assembled in a cleanroom.



Delivered to customers in a clean state

**The customer just needs piping!**

Clean unit products can be installed in your facility or equipment!

					
<b>AGD-R Series</b> Air operated valve Process gas/inert gas JXR/double barbed 1/4, 3/8 Class 3	<b>LGD Series</b> Manual valve Process gas/inert gas VCR equiv./double barbed 1/4, 3/8 Class 3	<b>OGD-R Series</b> Manual valve Process gas/inert gas JXR/double barbed 1/4, 3/8 Class 3	<b>HVB Series</b> Solenoid valve Vacuum/inert gas Rc/JXR/double barbed 1/8, 1/4, 3/8 Oil-prohibited (uses high vacuum grease)	<b>NAD Series</b> Air operated valve Inert gas/Non-corrosive liquids/low vacuum Rc 1/4, 3/8 Oil-prohibited	<b>LAD Series</b> Air operated valve Pure water, non-corrosive/Non-absorbable fluid Rc 3/8, 1/2, 3/4, 1 Oil-prohibited
					
<b>Multi-fit FFB Series</b> Solenoid valve Inert gas/low vacuum Rc 1/8, 1/4, 3/8, 1/2 General industrial	<b>For General purpose dry air</b> Solenoid valve Inert gas/low vacuum Rc 1/8, 1/4, 3/8, 1/2, 3/4, 1 General industrial	<b>FCS Series</b> Filter Air, N2 Rc 1/8, 1/4, 3/8 Class 6	<b>CAU Series</b> Filter Air Push-in ø10 to 12 Oil-prohibited	<b>FSL Series</b> Filter Air Push-in ø4 to 10 General industrial	<b>PGM Series</b> Regulator Process gas/inert gas JXR 1/4 Class 3
					
<b>RC2000 Series</b> Regulator Air, N2 Rc 1/4, 3/8, 1/2 Class 6	<b>RN Series</b> Regulator Air Rc 1/4, 3/8, 1/2, 3/4, 1 Oil-prohibited	<b>NF Series</b> Controller Air, N2 JXR/double barbed 1/4, 1/2 Class 6	<b>FCM Series</b> Controller Air/N2/argon/oxygen/city gas/ Methane, propane, hydrogen, helium Rc/JXR/double barbed 1/4 Oil-prohibited	<b>FSM3 Series</b> Flow Sensor Air/N2/argon/Carbon dioxide/oxygen Rc/JXR/double barbed 1/8, 1/4, 1/2 Oil-prohibited	<b>PPX-P12 Series</b> Pressure Sensor Air/non-corrosive gas Rc 1/8 Oil-prohibited
			<b>Display example</b>	<p>Introducing products tailored to semiconductor manufacturing processes and equipment is now available!</p> <p><b>Supports Cutting-Edge Semiconductor Process CKD Fine System components</b></p> <p><a href="https://www.ckd.co.jp/semiconductor/en/">https://www.ckd.co.jp/semiconductor/en/</a></p>	
			<b>Series Name</b>	 	
			Classification		
			Operating Fluid		
			Fitting		
			Bore size		
			Cleanliness (JIS)		

\*\*Products other than those listed, including products from other companies, can also be mounted.

Example of Supported Fittings (We can build with your desired fittings.)

<p>Rc thread</p>  <p><b>Sealing method</b> fill the gap around the sealant tape</p> <p><b>Benefits</b> General purpose screw Easy installation and piping change Low cost</p> <p><b>disadvantage</b> Sealing tape scrap generation Inferior sealing performance to the other 2 types</p>	<p>JXR (Metal gasket)</p>  <p>Female Male</p> <p><b>Sealing method</b> Insert metal gasket</p> <p><b>Benefits</b> Supports high vacuum to high pressure, low temperature to high sound Repeated connection possible Space-saving and removable/replaceable</p> <p><b>disadvantage</b> Welding necessary for piping Installation work is complicated</p>	<p>Double barbed fitting (Double ferrule)</p>  <p><b>Sealing method</b> Use 2 ferrules</p> <p><b>Benefits</b> No need for welding during piping, easy mounting Repeated connection possible Does not apply to products made by different *</p> <p><b>disadvantage</b> Particle generation during piping Space required when changing piping</p>
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