High reliability

- High durability of 20 million cycles
- Pressure resistant container structure
- High corrosion resistance
- Prevents coil scorching

Multi-Fit Valves

Easy to select

- Supports multiple fluids
- Wide variation

Easy to use

- Increased flexible installation
- Improved maintainability
- Silent structure

Dry air

Dry air (Inert gas)

Compressed air

Compressed air

Water

Water

Vacuum

Vacuum

Oil

Oil

Multi-fit for multi-fluids

The functions required for fluid control valves have been integrated into a single body

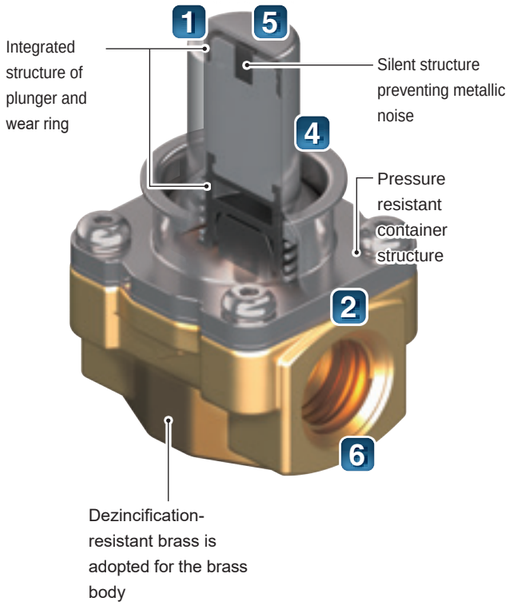
CKD's solenoid valve control technology has a half century track record in fluid control. The multi-fit valve further improves reliability by providing the standard functions required for various applications as a solenoid valve, and supports a variety of fluids with a single series. In addition, we are working to realize a sustainable society by supporting carbon neutrality.

Direct acting 2, 3-port solenoid valve (multi-fit valve)

FFB/FFG Series

High functionality as standard

Coil with full-wave rectifier (AC) used



Integrated structure of plunger and wear ring

Silent structure preventing metallic noise

Pressure resistant container structure

Dezincification-resistant brass is adopted for the brass body

1 Compatible with dry air (inert gas)

High durability of 20 million cycles realized

(Under CKD test conditions)

The integrated structure of the plunger and wear ring achieves durability equivalent to that of general air even with dry air.

2 Improved corrosion resistance of wetted parts

High corrosion resistant materials are used for plunger and flare pipe, and degalvanized brass material is used for the brass body. In addition, the flare pipe is integrally molded so there is no welding.

3 Coil with full-wave rectifier(AC)

Supports energy savings and prevention of coil burn due to overcurrent

Reduces the buzzing noise specific to AC current and achieves a low wattage of 11W→4.5W. (60% reduction compared with CKD's valve size 3)

4 Pressure resistant container structure adopted

Reduces risk of external leakage

The flow path is not exposed during coil replacement, and there is no fluid leakage.

5 Silent structure

Reduces metallic noise

It can be used in quiet environments such as medical facilities and laboratories.

6 Compatible with global standards

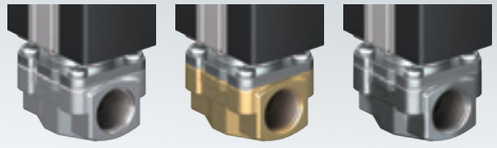
European Standards

CE RoHS

Wide variation

Body material

3 materials compatible with various fluids are available as standard.



Aluminum　Brass　Stainless steel

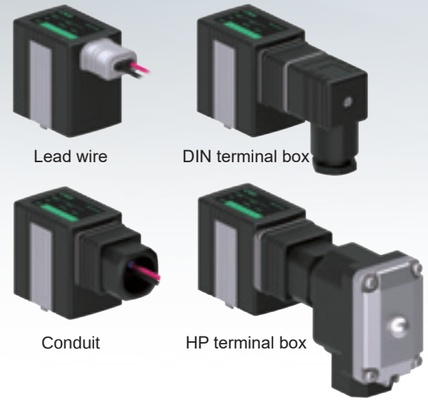
Port thread standards Rc, G, NPT

Sealant

Nitrile rubber, fluoro rubber, or ethylene propylene rubber can be selected to support various fluids.

Coil housing

Select the type based on the electrical wiring from four types.

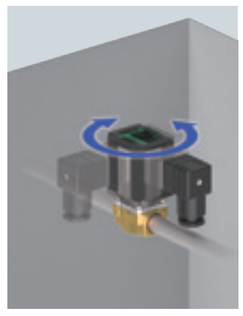


Lead wire　DIN terminal box

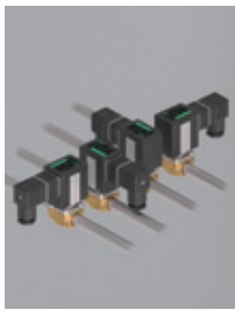
Conduit　HP terminal box

Increased flexibility in installation

Coil rotates 360°



Enables effective use of narrow spaces, such as installations near the wall.

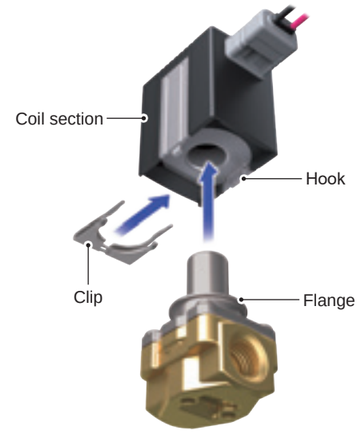


Flexibly supports line expansion.

Improved maintainability

One-touch attachment/removal of coil with clip

The coil and core are not fixed with screws, making it easy to detach the coil.



Series variation

Port	Configuration	Actuation	4 coil sizes (width 24/30/35/40) Port size 1/8	1/4	3/8	1/2
2WAY	Discrete valve	NC (open when energized)	●	●	●	●
		NO (closed when energized)	●	●	●	
	Manifold	NC common/individual supply	●	●		
3WAY	Discrete valve	Universal	●	●	●	
		NC pressurization	●	●	●	
	Manifold	Universal common supply/common exhaust		●		