Direct acting 2, 3-port solenoid valve
MULTI-FIT™

FFB/FFG Series

Multi-fit for various fluids.
Functions required for Fluid Control Valves are integrated into a single body

Compressed Air — Compressed Air
Dry air — Dry Air
Inert gas — Inert gas
Hot water (New) — Hot water
Water — Water
Medium Vacuum — Vacuum
Oil — Oil
Steam (New) — Steam

High reliability
- 20 million cycle high durability
- Pressure resistant container structure
- High corrosion resistance
- Prevents coil scorching

MULTI-FIT Valves

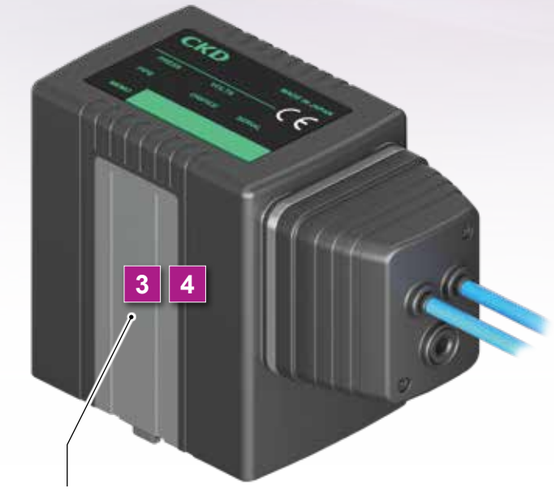
Easy to select
- Supports multiple fluids
- Wide variation

Easy to use
- Increased flexible installation
- Improved maintainability
- Silent structure

CKD's solenoid valve control technology has been developed for half a century with fluid control track records. The Multi-fit valve is equipped with the required function as a solenoid valve as standard for each application, further enhancing reliability to support a variety of fluids with a single series. We are also working to make a sustainable society that is carbon neutral.

- **Fiscal 2022 Cho Monodzukuri Innovative Parts and Components Award** (sponsored by: Monodzukuri Nippon Conference (Nikkan Kogyo Shimbun, Ltd.) **Winner of the "Machine/Robot Parts Award"**
- **Good Design Award** 2023 (sponsored by: Japan Institute of Design Promotion)

High functionality as standard



Coil with full-wave rectifier (AC) used

1 Compatible with dry air (inert gas)

High durability of 20 million cycles realized (Under CKD test conditions)

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

2 Improved corrosion resistance of wetted parts

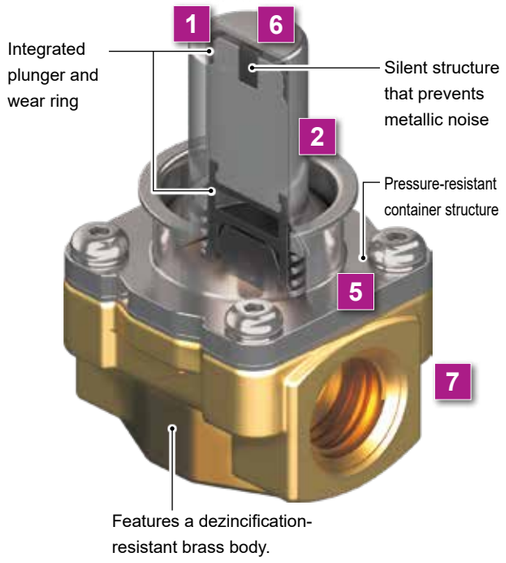
High corrosion resistant material is used for the plunger and flare pipe. In addition, the flare pipe is integrally molded so there is no welding.

3 Full-wave rectifier equipped as standard (AC type)

Prevents the noise specific to AC solenoids and coil burnout due to overcurrent generation.

4 Energy saving

Achieved a low wattage of 11 W → 4.5 W.
(60% less than our previous model) Valve size: 3)



5 Pressure resistant container structure adopted

Reduces risk of external leakage

The flow path is not exposed when the coil is replaced, and there is no fluid leakage.

6 Silent structure

Reduces metallic noise

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

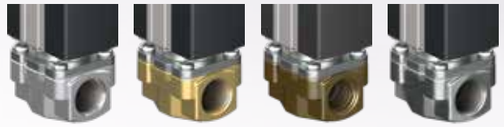
7 Compliant with Global Standards

CE UKCA RoHS

Abundant variations

Body material

Four materials compatible with various fluids are available as standard.


Aluminum　Brass　Bronze　Stainless Steel

Now

Port thread standards Rc/G/NPT

Sealant

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

Coil housing

Select the type ideal for your electrical wiring.

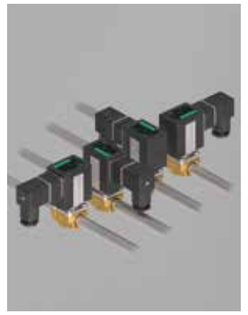

Lead Wire　DIN terminal box

Conduit　HP terminal box

Increased flexible installation

Coil rotates 360°

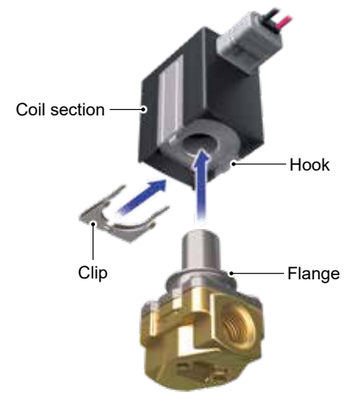

It enables effective use of narrow spaces, such as installations near walls.


Flexible for line expansion.

Improved maintainability

Attach/detach the coil with a push-in clip

The coil and core are not screwed up, enabling easy coil attachment/removal.



Series variation

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