







Series variation

2, 3-port solenoid valve for dry air

- EXA
- FWD
- HNB/G
- USB/G
- FAB/G
- FGB/G
- FVB
- FWB/G
- FHB
- FLB
- AB
- AG
- AP/
AD
- APK/
ADK
- DryAir
- EX-
XPLNprf
- XPLNprf
- HVB/
HVL
- S ∇ B/
NAB
- LAD/
NAD
- Water-
Rela
- NP/NAP/
NVP
- SNP
- CHB/G
- MXB/G
- Other
valves
- SWD/
MWD
- DustColl
- CVE/
CVSE
- CCH /
CPE/D
- LifeSci
- Gas-
Combus
- Auto-
Water
- SpecFld
- Custom
- Ending

No. of ports	Model	Structure	Remarks
2-port		AB31-Z	Direct acting/single unit
		AB41-Z	
		GAB312-Z	Direct acting/ manifold
		GAB352-Z	
		GAB412-Z	
		GAB452-Z	
		ADK11-Z	Pilot kick (Diaphragm drive)
3-port		AG31-Z	Direct acting/single unit
		AG41-Z	
		AG33-Z	
		AG43-Z	
		AG34-Z	
		AG44-Z	
	 Actuator 	GAG31*-Z	Direct acting/ manifold
		GAG35*-Z	
		GAG41*-Z	
		GAG45*-Z	
		GAG33*-Z	
		GAG43*-Z	
		GAG34*-Z	
GAG44*-Z			

	Actuation	Fluid	Port size						Page	
			Rc1/8	Rc1/4	Rc3/8	Rc1/2	Rc3/4	Rc1		
	NC	Dry air inert gas low vacuum	●	●					332	
				●	●					332
										338
										338
										338
										338
										338
					●	●	●	●	●	360
	Universal			●	●					342
					●	●				342
	NC pressurization			●	●					342
					●	●				342
	NO pressurization			●	●					342
					●	●				342
	Universal	Common supply/ individual exhaust	●*1*2	●*1*2					348	
		Common supply separate flow	●*1*2	●*1*2					348	
		Common supply/ individual exhaust		●*1*2	●*1*2				348	
		Common supply separate flow		●*1*2	●*1*2				348	
	NC pressurization	Common supply/ individual exhaust	●*1*2	●*1*2					352	
				●*1*2	●*1*2					352
	NO pressurization		●*1*2	●*1*2					356	
				●*1*2	●*1*2				356	

*1 : A port: Rc1/4, C port: Rc3/8
*2 : ● indicates NO port.

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Coil selection guide

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FVB
FWB/G
FHB
FLB
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AP/ AD
APK/ ADK
DryAir
EX- XPLNprf
XPLNprf
HVB/ HVL
S Δ B/ NAB
LAD/ NAD
Water- Rela
NP/NAP/ NVP
SNP
CHB/G
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Other valves
SWD/ MWD
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CCH / CPE/D
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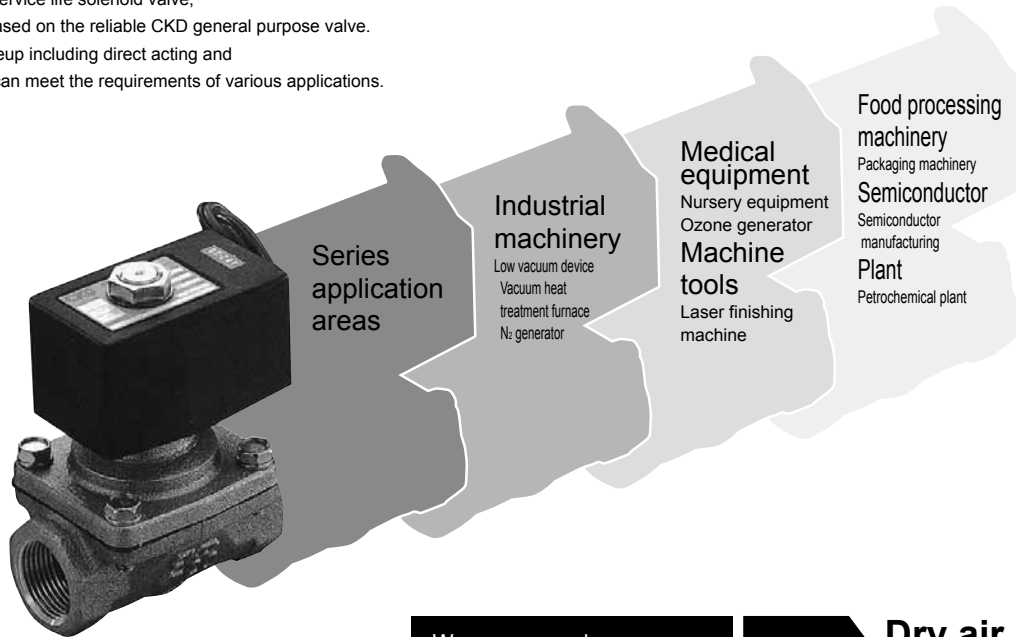
- **Coil housing types and selection guide (excluding explosion-proof)**
Various types are available for general purpose valve according to the application.
Refer to the structure and features to select the optimum model.

Coil system	Open frame	Thermal class 130 (B) mold	Lead wire	3A
		<ul style="list-style-type: none"> ● For DC ● Degree of protection: IP65 or equivalent ● Cannot be used outdoors 	<ul style="list-style-type: none"> ● Lead wire length 300 mm ● Conduit (CTC19) for direct piping can be attached 	
		<ul style="list-style-type: none"> ● For DC ● Degree of protection: IP21 or equivalent ● Cannot be used outdoors 	HP terminal box	<ul style="list-style-type: none"> ● Easy wiring ● Indicator lamp available
		<ul style="list-style-type: none"> ● For DC ● Degree of protection: IP65 or equivalent ● Cannot be used outdoors 	HP terminal box	<ul style="list-style-type: none"> ● Easy wiring ● Indicator lamp available
		<ul style="list-style-type: none"> ● Diode in the coil converts AC to DC. ● AC dedicated (50/60 Hz common) ● Degree of protection: IP65 or equivalent ● Cannot be used outdoors 	Lead wire	<ul style="list-style-type: none"> ● Lead wire length 300 mm ● Conduit (CTC19) for direct piping can be attached.
		<ul style="list-style-type: none"> ● Diode in the coil converts AC to DC. ● AC dedicated (50/60 Hz common) ● Degree of protection: IP21 or equivalent ● Cannot be used outdoors 	HP terminal box	<ul style="list-style-type: none"> ● Easy wiring ● Indicator lamp available
		<ul style="list-style-type: none"> ● Diode in the coil converts AC to DC. ● AC dedicated (50/60 Hz common) ● Degree of protection: IP65 or equivalent ● Perfect for places where whirring noise should be prevented. ● Cannot be used outdoors 	HP terminal box	<ul style="list-style-type: none"> ● Easy wiring ● Indicator lamp available
			Conduit	<ul style="list-style-type: none"> ● Use a conduit (CTC19 or G1/2) when using direct conduit wiring for the open frame lead wire.

Achieves long service life even with ultra dry air.

Ideal for managing dry air with the atmospheric dew point of -60°C as well as inert gas and low vacuum. Solenoid valve for dry air, capable of sustaining high performance for a long period of time.

The CKD solenoid valve for dry air is a long service life solenoid valve, created based on the reliable CKD general purpose valve. A wide lineup including direct acting and pilot kick can meet the requirements of various applications.



Series application areas

Industrial machinery

Low vacuum device
Vacuum heat treatment furnace
 N_2 generator

Medical equipment

Nursery equipment
Ozone generator
Machine tools
Laser finishing machine

Food processing machinery

Packaging machinery
Semiconductor
Semiconductor manufacturing Plant
Petrochemical plant

We recommend the solenoid valve for dry air for the following fluids.

Dry air

Inert gas

N_2 Ar
He gas

Low vacuum

0.133 kPa
{1 Torr} or more

Oil free product

This valve is suited to fluids susceptible to oil and dust, such as dry air, nitrogen gases, helium and low vacuum 0.133 kPa {1 Torr}. (AB31/AB41 / AB41E4)

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