



General Purpose Valves  
Catalog No. CB-03-1SA

Pilot kick 2-port solenoid valve for dry air  
(general purpose valve)

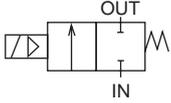
# ADK11-Z Series

- NC (Normally Closed)
- Port size: Rc1/4 to Rc1
- Diaphragm drive



## JIS symbol

- NC (Normally Closed)



## Common specifications

Item	Standard specifications
Working fluid	Dry air (atmospheric dew point -70°C and over)/inert gas/low vacuum [ $1.33 \times 10^3$ Pa(abs)]
Working pressure differential MPa	0 to 0.7 (refer to max. working pressure differential in individual specifications...)
Max. working pressure MPa	2
Proof pressure (water pressure) MPa	4
Fluid temperature °C	5 to 40 (no freezing)
Ambient temperature °C	-10 to 40
Thermal class	Class 130 (B)
Atmosphere	Place free of corrosive gas and explosive gas
Valve structure	Pilot kick poppet/diaphragm drive
Valve seat leakage cm <sup>3</sup> /min (ANR)	1 or less (8A/10A: at 0.02 to 0.7 MPa, 15A to 25A: at 0.02 to 0.6 MPa)*
Mounting orientation	Unrestricted

\* When used at a pressure less than 0.02MPa, the sealant may be unstable. Contact CKD in this case.

## Individual specifications

Item	Model No.	Port size	Orifice size (mm)	Min. working pressure differential (MPa)	Max. working pressure differential (MPa)	Rated voltage	Power consumption (W)		Weight (kg)
							AC	DC	
ADK11	-8A-****Z	Rc 1/4	12	0	0.7	100 VAC 50/60Hz 200 VAC 50/60Hz	15.5	14	0.8
	-10A-****Z	Rc 3/8	12		0.7				
	-15A-****Z	Rc 1/2	16		0.6	1.0			
	-20A-****Z	Rc 3/4	23		0.6	1.1			
	-25A-****Z	Rc 1	28		0.6	1.5			

\*1: The model numbers above show the basic port size (Rc). Refer to How to order for other combinations.

\*2: The voltage fluctuation range must be within ±10% of the rated voltage.

\*3: The leakage current must be less than or equal to the values shown below.

Leakage current	Voltage						
	100 VAC	200 VAC	12 VDC	24 VDC	48 VDC	100 VDC	
Model No.							
ADK11-8A to 25A-****Z	10 mA or less	5 mA or less	40 mA or less	20 mA or less	10 mA or less	5 mA or less	

### Compatibility table by variation

	ADK11-Z
Classification	Pilot kick 2-port valve for dry air
Body material	Stainless steel
P4	●
P40	●

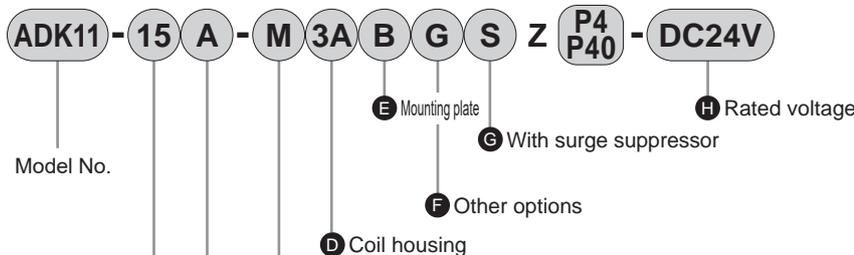
●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. □: Not applicable

\*1: Body material Select from stainless steel products.

\*2: Body material/Seal combination code M only.

\*3: Pipe material is SUS316.

### How to order



Code	Item			
<b>A Port size</b>				
8	1/4			
10	3/8			
15	1/2			
20	3/4			
25	1			
<b>B Thread</b>				
A	Rc			
G	G			
N	NPT			
<b>C Body/sealant combination</b>				
	<b>Body</b>	<b>Seal</b>	<b>Treatment</b>	<b>Remarks</b>
M	Stainless steel	Fluoro rubber	Oil-prohibited	—

For Items (D) to (H), the combinations indicated with codes are available. Note that if options for Items (E) to (G) are not required, they should be left blank.

D Coil housing		E	F Other options		G	H Rated voltage
Description		Mounting plate	Conduit (conduit piping)		With surge suppressor	Description
			CTC-19	G 1/2		
3A	Open Frame type	B	G		S	12 VDC, 24 VDC, 48 VDC, 100 VDC
3I			HP terminal box (IP65 or equivalent) (G1/2)			
3J			HP terminal box with lamp (IP65 or equivalent) (G1/2)			
5A	Open Frame type (diode integrated)	B	G			100 VAC, 200 VAC
5I			HP terminal box (IP65 or equivalent) (G1/2)			
5J			HP terminal box with lamp (IP65 or equivalent) (G1/2)			

⚠ Refer to the following cautions for Items (D) to (H).

3A 5A		<ul style="list-style-type: none"> <li>● Open frame Grommet lead wire 300 mm</li> <li>● 5A (diode integrated)</li> </ul>
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G H		<ul style="list-style-type: none"> <li>● Conduit</li> <li>● G(CTC19)</li> <li>● H(G1/2)</li> </ul>
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3I 3J 5I 5J		<ul style="list-style-type: none"> <li>● Open frame HP terminal box (IP65 or equivalent)</li> <li>● 5I, 5J (diode integrated)</li> </ul>
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Refer to "General Purpose Valves" (catalog No. CB-03-1SA) for details on coil selection.

### ⚠ Precautions for model No. selection

#### Notes for Item (D)

\*1: Coils for 5A, 5I, and 5J convert AC voltage to DC with a diode. Voltage of less than 100 VAC is not available.

#### Notes for Items (E) to (G)

\*2: For (E), select an option from G and H.

\*3: The surge suppressor is attached with the lead wire coil. When selecting a coil with terminal box, the surge suppressor is mounted in the terminal box.

\*4: Surge suppressor is incorporated as standard in the coil with diode.

#### Notes for Item (H)

\*5: 100 VAC coil is compatible with 100 VAC 50/60 Hz, and 200 VAC coil is compatible with 200 VAC 50/60 Hz.

\*6: For voltages other than above, contact CKD.

\*7: The lead wire is available in the standard 300mm length, as well as 500mm, 1000mm, 2000mm and 3000mm lengths. Contact CKD for more information.