



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

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

ADK11-Z-FP2 Series

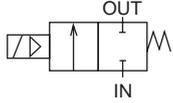
- NC (Normally Closed)
- Port size: Rc1/4 to Rc1
- Diaphragm drive



For CE details
Check our website.

JIS symbol

- NC (Normally Closed)



Common specifications

Item	Standard specifications
Working fluid	Dry air (atmospheric dew point -60°C and over)/inert gas/low vacuum [1.33×10^3 Pa(abs)]
Working pressure differential MPa	0 to 0.7 (refer to max. working pressure differential in individual specifications...)
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 ³ /min (ANR)	1 or less (8 A/10 A: at 0.02 to 0.7 MPa, 15 A to 25 A: at 0.02 to 0.6 MPa)*
Mounting orientation	Unrestricted
Degree of protection	IP 65 or equiv.

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

Individual specifications

Item	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	-8 A	Rc 1/4	0	0.7	100 VAC 50/60Hz 200 VAC 50/60Hz 24 VDC	15.5	14	0.8
	-10 A	Rc 3/8		0.7				0.8
	-15 A	Rc 1/2		0.6				1.0
	-20 A	Rc 3/4		0.6				1.1
	-25 A	Rc 1		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 $\pm 10\%$ of the rated voltage.

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

Voltage	Leakage current		
	100 VAC	200 VAC	24 VDC
Model No.			
ADK11-8A to 25A-*ZFP2	10 mA or less	5 mA or less	20 mA or less

Flow characteristics

Model No.	Port size	Orifice size (mm)	Flow characteristics		
			C [dm ³ /(s·bar)]	b	S (mm ²)
ADK11-8A	Rc 1/4	12	9.2	0.36	-
ADK11-10A	Rc 3/8	12	11	0.46	-
ADK11-15A	Rc 1/2	16	20	0.31	-
ADK11-20 A	Rc 3/4	23	-	-	162
ADK11-25A	Rc 1	28	-	-	231

*1: Effective cross-sectional area S and sonic conductance C are converted as $S \approx 5.0 \times C$.

