



Pilot kick 2-port solenoid valve for clean blow
(general purpose valve)

ADK11-ZP90 Series

- NC (normally closed)
- Port size: Rc1/4 to Rc1
- Diaphragm structure

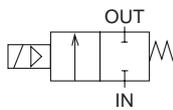


Structure and material restriction

	Structure		Material restriction		Model No.
P9 Series	Low particle generation	Oil-prohibited	Copper-based materials prohibited (wetted parts)	Stainless steel material used (wetted parts)	P90

JIS symbol

- Normally closed



Common specifications

Descriptions	Standard specifications
Working fluid	Air/inert gas/low vacuum (1.33kPa (abs))
Operating pressure differential MPa	0 to 0.7 (Refer to max. operating pressure differential in specifications.)
Max. working pressure MPa	2
Proof pressure (water pressure) MPa	4
Fluid temperature °C	-10 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 structure
Valve seat leakage cm ³ /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	Free

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

Individual specifications

Descriptions Model No.	Port size	Orifice size (mm)	Min. operating pressure differential (MPa)	Max. operating pressure differential (MPa)	Rated voltage	Power consumption (W)	
						AC	DC
ADK11-8A-L**ZP90	Rc1/4	12	0	0.7	100 VAC 50/60 Hz	15.5	14
-10A-L**ZP90	Rc3/8	12		0.7	200 VAC 50/60 Hz		
-15A-L**ZP90	Rc1/2	16		0.6	12 VDC		
-20A-L**ZP90	Rc3/4	23		0.6	24 VDC		
-25A-L**ZP90	Rc1	28		0.6	48 VDC		
				0.6	100 VDC		

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

*2: The leakage current must be less than the values shown below.

Leakage current Voltage Model No.	100 VAC	200 VAC	12 VDC	24 VDC	48 VDC	100 VDC
	ADK11-8A to 25A-L**ZP90	10 mA or less	5 mA or less	40 mA or less	20 mA or less	10 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-L**ZP90	Rc1/4	12	9.2	0.36	-
ADK11-10A-L**ZP90	Rc3/8	12	11	0.46	-
ADK11-15A-L**ZP90	Rc1/2	16	20	0.31	-
ADK11-20A-L**ZP90	Rc3/4	23	-	-	162
ADK11-25A-L**ZP90	Rc1	28	-	-	231

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

SCPD3

SCM

SSD2

MDC2

SMG

LCM

LCR

LCG

LCX

STM

STG

STR2

MRL2

GRC

Cylinder
Switch

MN3E

MN4E

4GA/B

M4GA/B

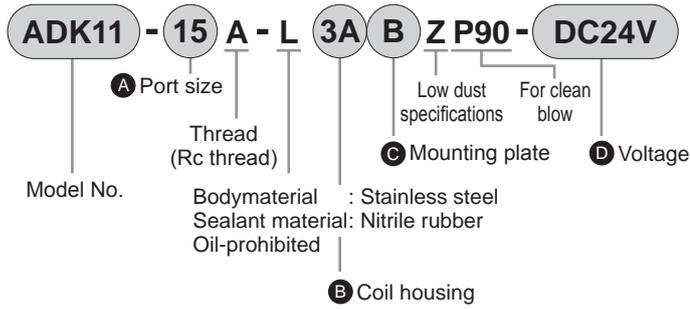
MN4GA/B

F.R.(module
unit)Clean
F.RPrecision
RPress gauge
Diff. press gaugeElectro-
pneumatic RSpeed
controllerAuxiliary
valveFitting/
tubeClean
air unitPressure
sensorFlow rate
sensorValve for
air blow

Ending

ADK11-Z Series

How to order



[Example of model No.]

ADK11-15A-L3ABZP90-DC24V

Model: ADK11

A Port size: Rc1/2

B Coil housing

: Open frame lead wire for DC voltage

C Mounting plate: With mounting plate

D Voltage: 24 VDC

A Port size	Code	Content
	8	1/4
	10	3/8
	15	1/2
	20	3/4
	25	1

B Coil housing ^{*1, *2}		C Mounting plate		D Rated voltage ^{*3, *4}
3A	Open frame	Blank	Without mounting plate	12 VDC, 24 VDC 48 VDC, 100 VDC
		B	Mounting plate	
5A	Open frame (diode integrated)	Blank	Without mounting plate	100 VAC 200 VAC
		B	Mounting plate	

Notes for **B**

*1: Coils for 5A have a diode to convert AC to DC power supply.
Voltage of less than 100 VAC is not available.

*2: Surge suppressor is incorporated as standard in the coil with diode (5A).

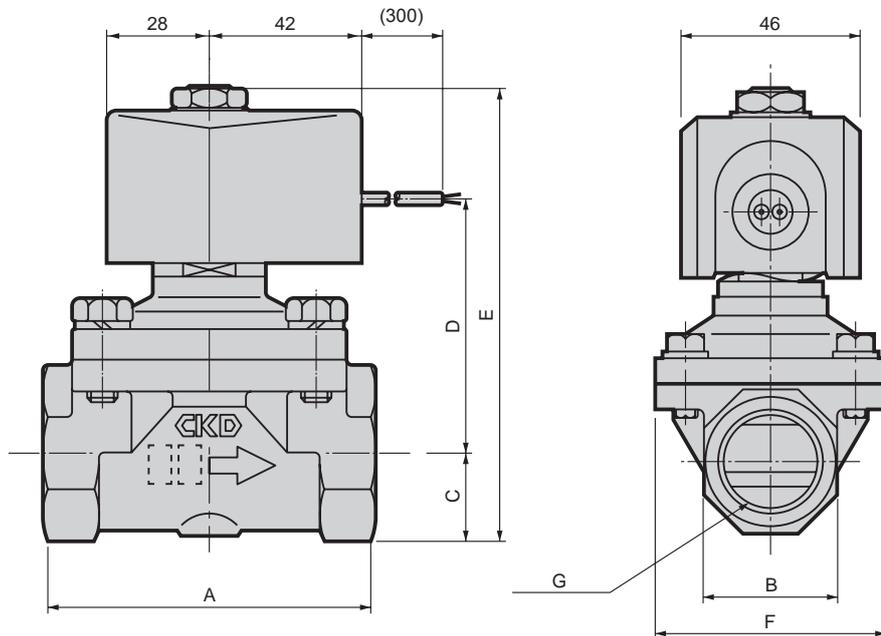
Notes for **D**

*3: 100 VAC coil is compatible with 100 VAC 50/60 Hz, and 200 VAC coil is compatible with 200 VAC 50/60 Hz.

*4: For voltages other than above, contact CKD.

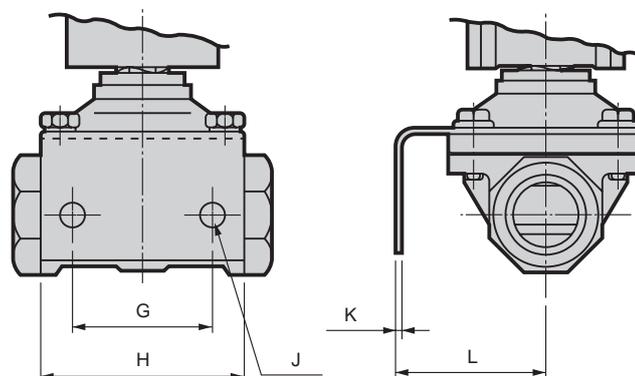
Dimensions

- Open frame lead wire
ADK11-*L 3A
5A ZP90



Model No.	A	B	C	D	E	F	G
ADK11-8A-L*ZP90	50	23	11.5	52	92.5	46	Rc1/4
ADK11-10A-L*ZP90	50	23	11.5	52	92.5	46	Rc3/8
ADK11-15A-L*ZP90	71	29	14.5	57	100.5	50	Rc1/2
ADK11-20A-L*ZP90	80	35	17.5	60.5	107	60	Rc3/4
ADK11-25A-L*ZP90	90	45	22.5	66	117.5	71	Rc1

- Mounting plate
ADK11-*L*BZP90



Model No.	G	H	J	K	L
ADK11-8A-L*BZP90	30	50	ø7	2	33.5
ADK11-10A-L*BZP90	30	50	ø7	2	33.5
ADK11-15A-L*BZP90	40	56	ø9	3.2	45
ADK11-20A-L*BZP90	45	63	ø9	3.2	50
ADK11-25A-L*BZP90	50	75	ø11	3.2	56

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder Switch
- MN3E
MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R.(module unit)
- Clean F.R
- Precision R
- Press gauge
Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending