

Compact pilot operated solenoid valve for water

# FWD-FP2 Series

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



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

For more information about CE,  
please check our website.

## Specifications

Item	FWD11-8A	FWD11-10A	FWD11-15A	FWD11-20A	FWD11-25A
Actuation	NC (open when energized)				
Working fluid	Water (excluding sewage, agricultural water, liquid manure and antifreeze liquid)				
Working pressure differential	MPa 0.02 to 0.7				
Max. working pressure	MPa 0.7				
Proof pressure (water pressure)	MPa 1.05				
Fluid temperature	°C 5 to 60 (no freezing)				
Ambient temperature	°C -10 to 60 (no freezing)				
Atmosphere	Place free of corrosive gas and explosive gas				
Valve structure	Pilot operated poppet, diaphragm drive				
Valve seat leakage	cm <sup>3</sup> /min 0 (water pressure) (*1)				
Mounting orientation	Unrestricted				
Degree of protection	IPX5				
Port size	Rc1/4	Rc3/8	Rc1/2	Rc3/4	Rc1
Orifice size	mm 15 (*2)			22 (*2)	
Cv	2.8	4.2	6.0	11.0	12.0
Weight	g 340	320	390	730	950
Rated voltage	100 VAC 50/60Hz, 200 VAC 50/60Hz, 24 VDC				
Voltage fluctuation range	Rated voltage 10%				
Apparent power	VA When holding (50/60 Hz): 5/4, when starting (50/60 Hz): 9/8			When holding (50/60 Hz): 9.5/7, when starting (50/60 Hz): 23/20	
Power consumption	W AC(50/60Hz):2.7/2, DC:4			AC(50/60Hz):4/3.2, DC:4	
Thermal class	Class 130 (B)				

\*1: Valve seat leakage 0 cm<sup>3</sup>/min means that no water drops come out of the chamber for one minute.

\*2: Orifice size means the size of valve seat.

### How to order

**FWD11 - 15 A - D 2GS FP2 - AC100V**

Model No.

**A** Port size

**B** Thread

**C** Body/sealant combination

**D** Coil option

**E** Rated voltage  
\*2



### Precautions for model No. selection

\*1: Page 9 for port sizes 8, 10 and 15; and Page 11 for port sizes 20 and 25.

\*2: Rated voltages of 110 VAC 50/60Hz and 220VAC 50/60Hz are also available. Contact CKD for details.

\*3: Fluoro rubber is also available for the diaphragm. Contact CKD for details.

[Example of model No.]

**FWD11-15A-D2GSFP2-AC100V**

- A** Port size : 1/2
- B** Thread : Rc thread
- C** Body/sealant combination : Stainless steel/PPS, NBR
- D** Coil option : DIN terminal box/with surge suppressor (Pg9)
- E** Rated voltage : 100 VAC 50/60 Hz, 110 VAC 60 Hz

Code	Description	
<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 thread	
G	G thread	
N	NPT thread	
<b>C Body/sealant combination</b>		
	Body	Seal
D	Stainless steel/PPS	NBR
<b>D Coil option</b>		
2C	Grommet lead wire	
2CS	Grommet lead wire with surge suppressor	
2G	With DIN terminal box (*1)	
2GS	With DIN terminal box/surge suppressor (*1)	
2H	With DIN terminal box/lamp (*1)	
2HS	DIN terminal box/with lamp/surge suppressor(*1)	
<b>E Rated voltage</b>		
AC100V	100 VAC 50/60 Hz, 110 VAC 60 Hz	
AC200V	200 VAC 50/60 Hz and 220 VAC 60 Hz	
DC24V	24 VDC	

Electric actuator	Pneumatic cylinders	Assistive device	Pneumatic valves	FL/Auxiliary Components Electronic Component	Vacuum components	Main line components	Fluid control valves	Main line components	Anti-bacterial/bacteria-removing filter	Vacuum components	Fluid control valves

For dimensions, refer to the FWD Series in "General Purpose Valves (CB-03-1SA)".