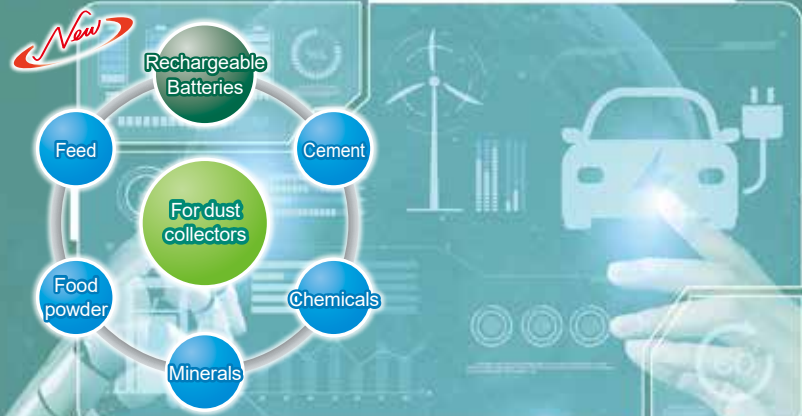


Ideal for pulse jet air control in rechargeable battery manufacturing



● Long-life diaphragm structure

Longer, stable service life reduces maintenance costs and man-hours.

● Instantaneous high-flow injection

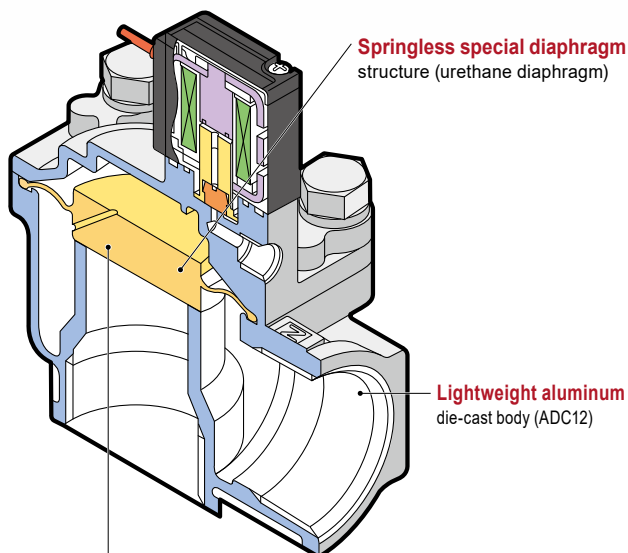
Instantaneous, high-flow injection effectively shakes off dust. Opening/closing speed and sealing performance are also fully assured.

● Ideal for controlling a wide variety of powders and granules

Can be used in a wide range of applications including supply, mixing, and removal of various powders and granules.

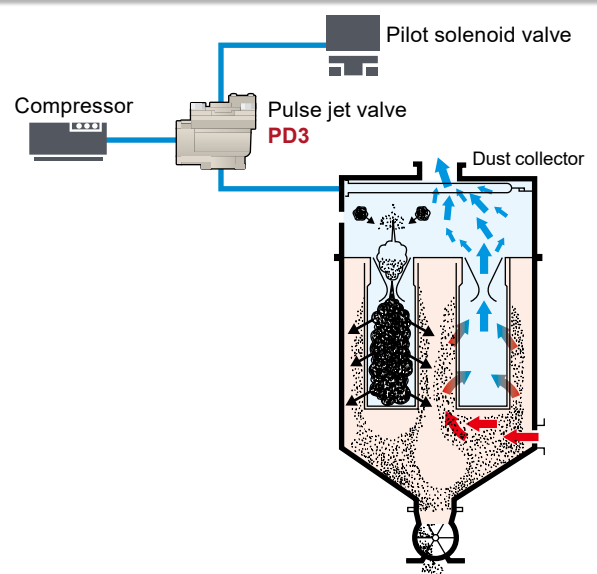
● Seal material can be selected

Seal material to suit the operating environment : urethane, nitrile or fluoro rubber.



Easy maintenance
one-piece main-valve diaphragm, simple parts replacement

Dust collector valve control example



Pilot-operated 2-port dust collector valve - Pulse Jet PD3/PDV3-P4 Series

CKD Corporation

<https://www.ckd.co.jp/en/>

LN-029AA

●Contact a CKD Sales representative for special specifications of this product.

PD3/PDV3-P4 Series

Specifications

Common specifications

Item	Air-operated type		Solenoid valve-mounted type	
	PD3		PDV3	
Fluid used	*1	Compressed air (must not contain corrosive gases)		
Minimum operating pressure differential	MPa	0.1		
Maximum operating pressure differential	MPa	0.7		
Maximum operating pressure	MPa	0.7		
Withstand pressure (hydraulic)	MPa	2.0		
Fluid Temperature	°C	-10 to 60 ; with fluoro rubber seal material : -10 to 100 (no freezing)		
Ambient temperature	°C	-10 to 60 ; with fluorine rubber seal material : -10 to 100		
Atmosphere		-	Locations free of corrosive and explosive gases	
Valve construction		Pilot-type poppet construction		
Seat leakage	cm ³ /min	300 or less ; with urethane rubber seal material : 50 or less		
Pilot port bore		Rc1/8		
Mounting orientation		Universal		
Operating environment		Indoors/Outdoors		Indoors

Electrical Specifications

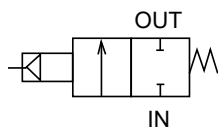
Item		PDV3	
Rated voltage		100 VAC (50/60 Hz) / 110 VAC (60 Hz), 200 VAC (50/60 Hz) / 220 VAC (60 Hz), 12 VDC, 24 VDC	
Voltage Fluctuation Range		±10 % of rated voltage	
Apparent power (VA)	When holding	7.5 (50 Hz), 5.5 (60 Hz)	
	At startup	20 (50 Hz), 17 (60 Hz)	
Power consumption (W)	AC	4.0 (50 Hz), 3.4 (60 Hz)	
	DC	6.5	
Heat resistance class		Class 130 (B) (when coil option 4A is used : equivalent to Class 180 (H))	
Protection structure		*2 Equivalent to IP65	

*1 : Please consult us separately for use in dew point ADP -80 °C environments or for use with nitrogen or inert gases.

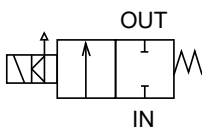
*2 : Models with T-type terminal box are equivalent to IP61.

Circuit diagram

● PD3 (air-operated type)



● PDV3 (with solenoid valve)



Specifications by model

Item	Connection port size	Orifice diameter (mm)	Cv value	Weight (kg)
● Air-operated type				
PD3-20A-P4-FL	Rc 3/4	23	11	0.26
PD3-25A-P4-FL	Rc 1	28	18	0.40
PD3-40A-P4-FL	IN : Rc 1 1/2 - OUT : O.D. ø48 length 52	37	45	0.86
PD3-40A-RC-P4-FL	Rc 1 1/2	37	45	0.75
● Solenoid valve-mounted type				
PDV3-20A-P4-FL	Rc 3/4	23	11	0.41
PDV3-25A-P4-FL	Rc 1	28	18	0.55
PDV3-40A-P4-FL	IN : Rc 1 1/2 - OUT : O.D. ø48 length 52	37	45	1.01
PDV3-40A-RC-P4-FL	Rc 1 1/2	37	45	0.90

*1 : For the pilot solenoid valve of air-operated type PD3, use of the FFB-3106□3-P4 Series or AB41E4-02-3-03T is recommended. For details on each model, refer to the CKD Component Products website (<https://www.ckd.co.jp/kiki/en/>).

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