

# 92×92×25 mm

**San Ace 92 9GA type** Low Power Consumption Fan 



## General Specifications

- Material ..... Frame: Plastic (Flammability: UL 94V-0), Impeller: Plastic (Flammability: UL 94V-0)
- Expected life ..... See the table below. (L10 life: 90% survival rate for continuous operation in free air at 60°C, rated voltage)
- Motor protection function ..... Locked rotor burnout protection, Reverse polarity protection  
For details, please refer to p. 547.
- Dielectric strength ..... 50/60 Hz, 500 VAC, for 1 minute (between lead wire conductors and frame)
- Insulation resistance ..... 10 MΩ or more with a 500 VDC megger (between lead wire conductors and frame)
- Sound pressure level (SPL) ..... At 1 m away from the air inlet
- Storage temperature ..... -30 to +70°C (Non-condensing)
- Lead wire ..... ⊕Red ⊖Black  Sensor Yellow  Control Brown  
(For models without PWM control function, there is no speed control wiring.)
- Mass ..... 125 g

## Specifications

The models listed below **have ribs and pulse sensors with PWM control function.** For models without ribs, append "1" to the end of model numbers.

Model no.	Rated voltage [V]	Operating voltage range [V]	PWM duty cycle* [%]	Rated current [A]	Rated input [W]	Rated speed [min <sup>-1</sup> ]	Max. airflow [m <sup>3</sup> /min] [CFM]		Max. static pressure [Pa] [inchH <sub>2</sub> O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]				
<b>9GA0912P4J03</b>	12	10.2 to 13.8	100	0.39	4.68	5000	2.2	77.7	105	0.42	43	-20 to +70	60000/60°C				
			0	0.06	0.72	1500	0.65	23.3	9.4	0.04	14						
<b>9GA0912P4G03</b>			100	0.28	3.36	4400	1.93	68.2	81	0.33	39						
			0	0.06	0.72	1500	0.65	23.3	9.4	0.04	14						
<b>9GA0912P4S03</b>			100	0.2	2.4	3800	1.67	59.0	60.6	0.24	35						
			0	0.06	0.72	1500	0.65	23.3	9.4	0.04	14						
<b>9GA0924P4J03</b>			24	20.4 to 27.6	100	0.2	4.8	5000	2.2	77.7	105			0.42	43	-20 to +70	60000/60°C
					0	0.04	0.96	1500	0.65	23.3	9.4			0.04	14		
<b>9GA0924P4G03</b>	100	0.15			3.6	4400	1.93	68.2	81	0.33	39						
	0	0.04			0.96	1500	0.65	23.3	9.4	0.04	14						
<b>9GA0924P4S03</b>	100	0.12			2.88	3800	1.67	59.0	60.6	0.24	35						
	0	0.04			0.96	1500	0.65	23.3	9.4	0.04	14						

\* PWM frequency: 25 kHz

The following sensor and control options are available for selection.

Available for all models.  Without sensor  Pulse sensor

Differs according to the model. Refer to the table on p. 572.  Lock sensor

The models listed below **have ribs and pulse sensors.** For models without ribs, append "1" to the end of model numbers.

Model no.	Rated voltage [V]	Operating voltage range [V]	Rated current [A]	Rated input [W]	Rated speed [min <sup>-1</sup> ]	Max. airflow [m <sup>3</sup> /min] [CFM]		Max. static pressure [Pa] [inchH <sub>2</sub> O]		SPL [dB (A)]	Operating temperature [°C]	Expected life [h]
<b>9GA0912H401</b>	12	10.2 to 13.8	0.19	2.28	3300	1.45	51.2	45.6	0.18	31	-20 to +70	60000/60°C
<b>9GA0912F401</b>			0.14	1.68	2800	1.23	43.5	32.9	0.13	28		
<b>9GA0912M401</b>			0.11	1.32	2400	1.05	37.1	24	0.096	24		
<b>9GA0912L401</b>			0.09	1.08	2000	0.87	30.7	16.7	0.067	21		
<b>9GA0912W401</b>			7 to 16	0.19	2.28	3300	1.45	51.2	45.6	0.18		
<b>9GA0924H401</b>	24	20.4 to 27.6	0.09	2.16	3300	1.45	51.2	45.6	0.18	31	-20 to +70	60000/60°C
<b>9GA0924F401</b>		16 to 27.6	0.08	1.92	2800	1.23	43.5	32.9	0.13	28		
<b>9GA0924M401</b>		14 to 27.6	0.05	1.2	2400	1.05	37.1	24	0.096	24		
			0.03	0.72	2000	0.87	30.7	16.7	0.067	21		
<b>9GA0924W401</b>		12 to 28.8	0.09	2.16	3300	1.45	51.2	45.6	0.18	31		

The following sensor and control options are available for selection.

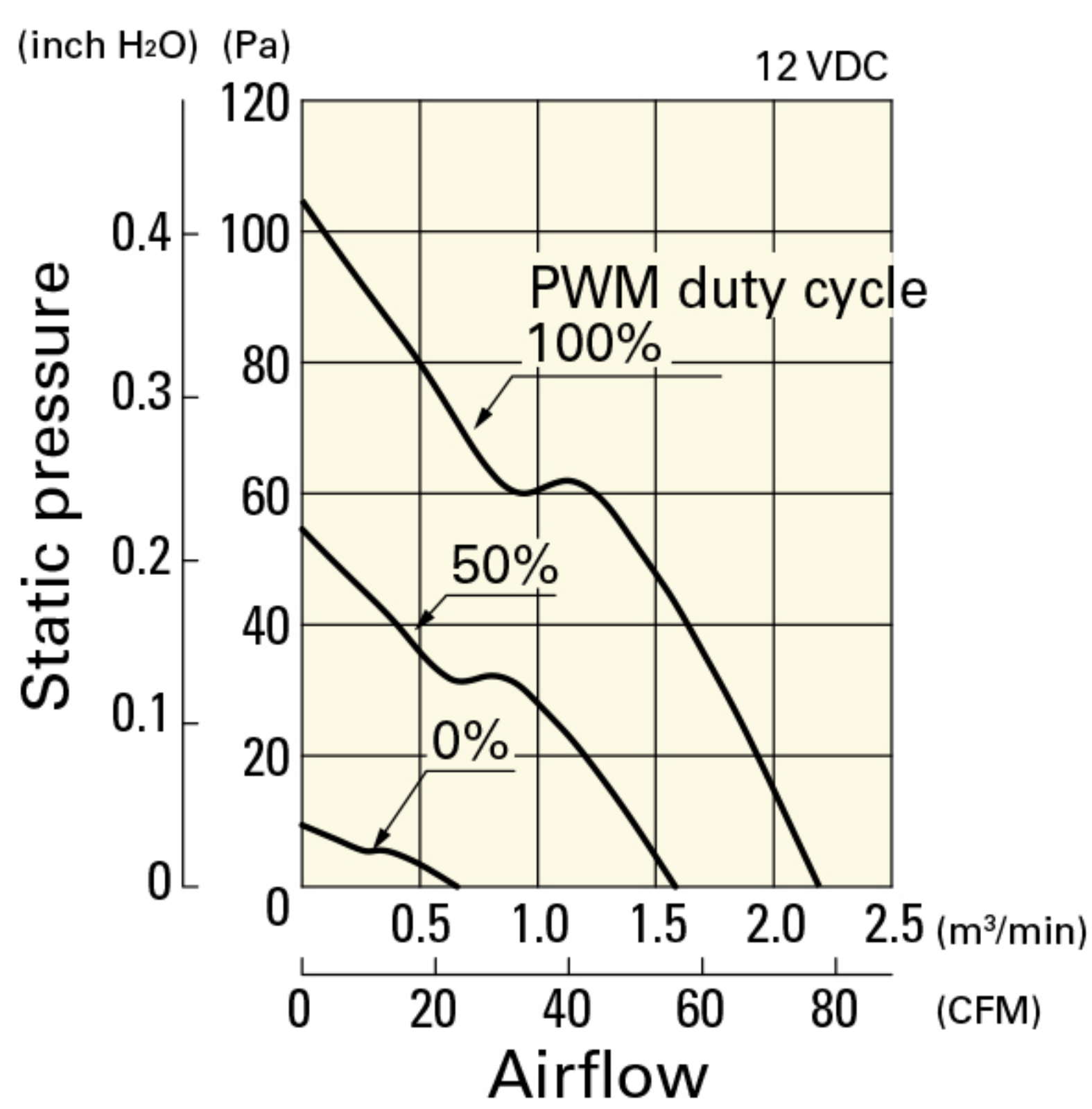
Available for all models.  Without sensor  Lock sensor

# Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

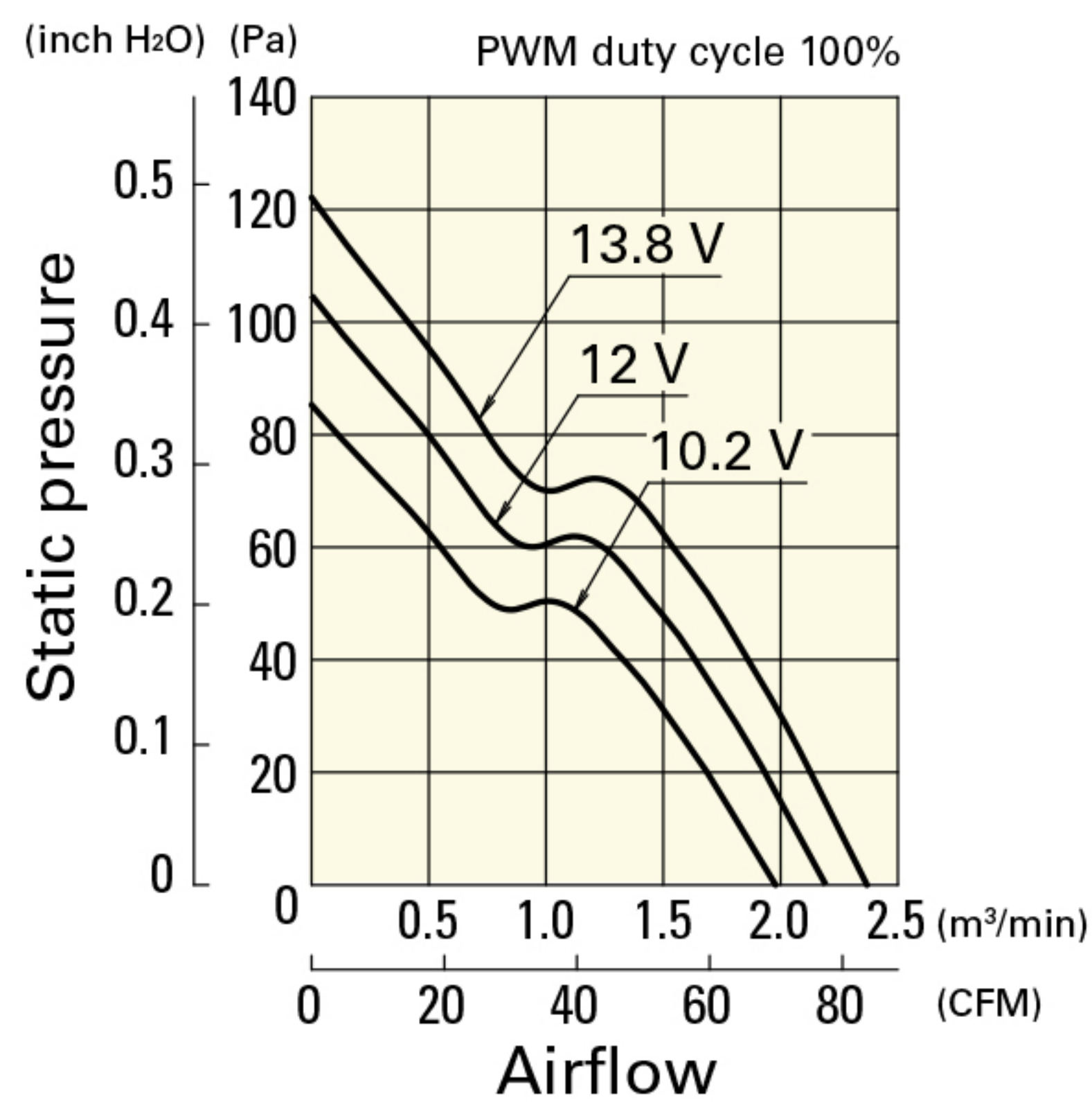
DC Fan 92 mm sq.

## 9GA0912P4J03 With pulse sensor with PWM control function

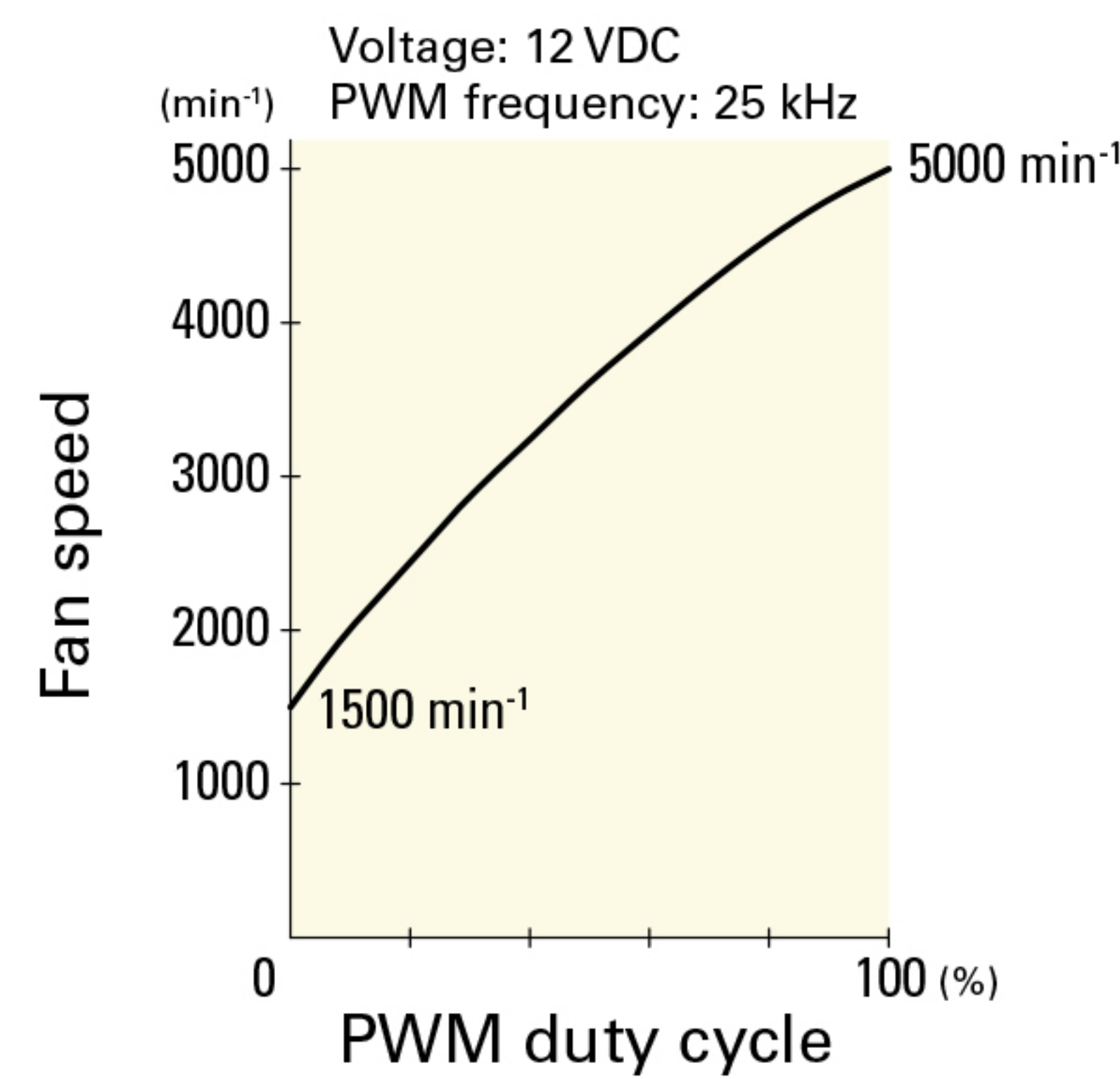
PWM duty cycle



Operating voltage range

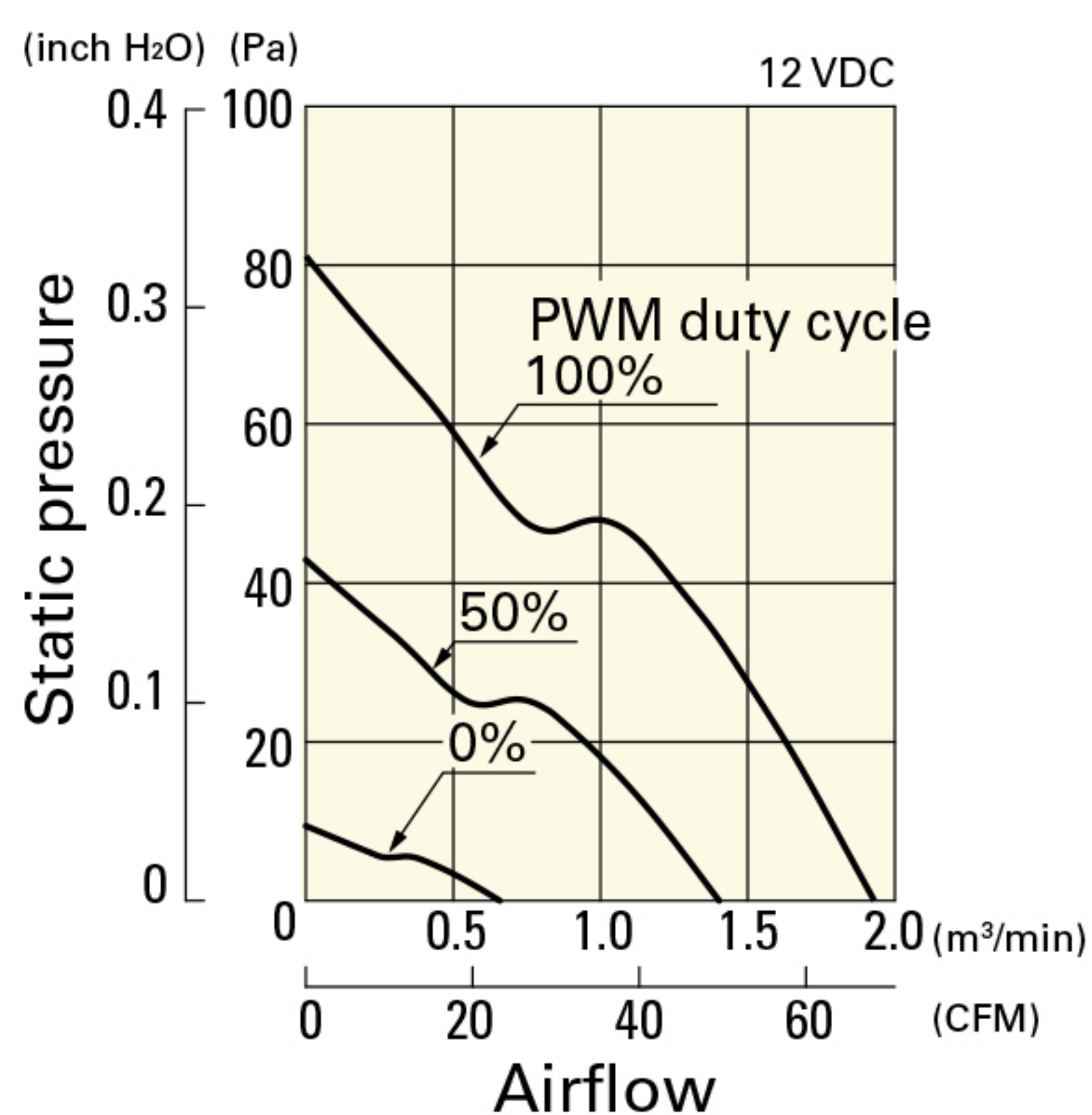


PWM duty - Speed characteristics example

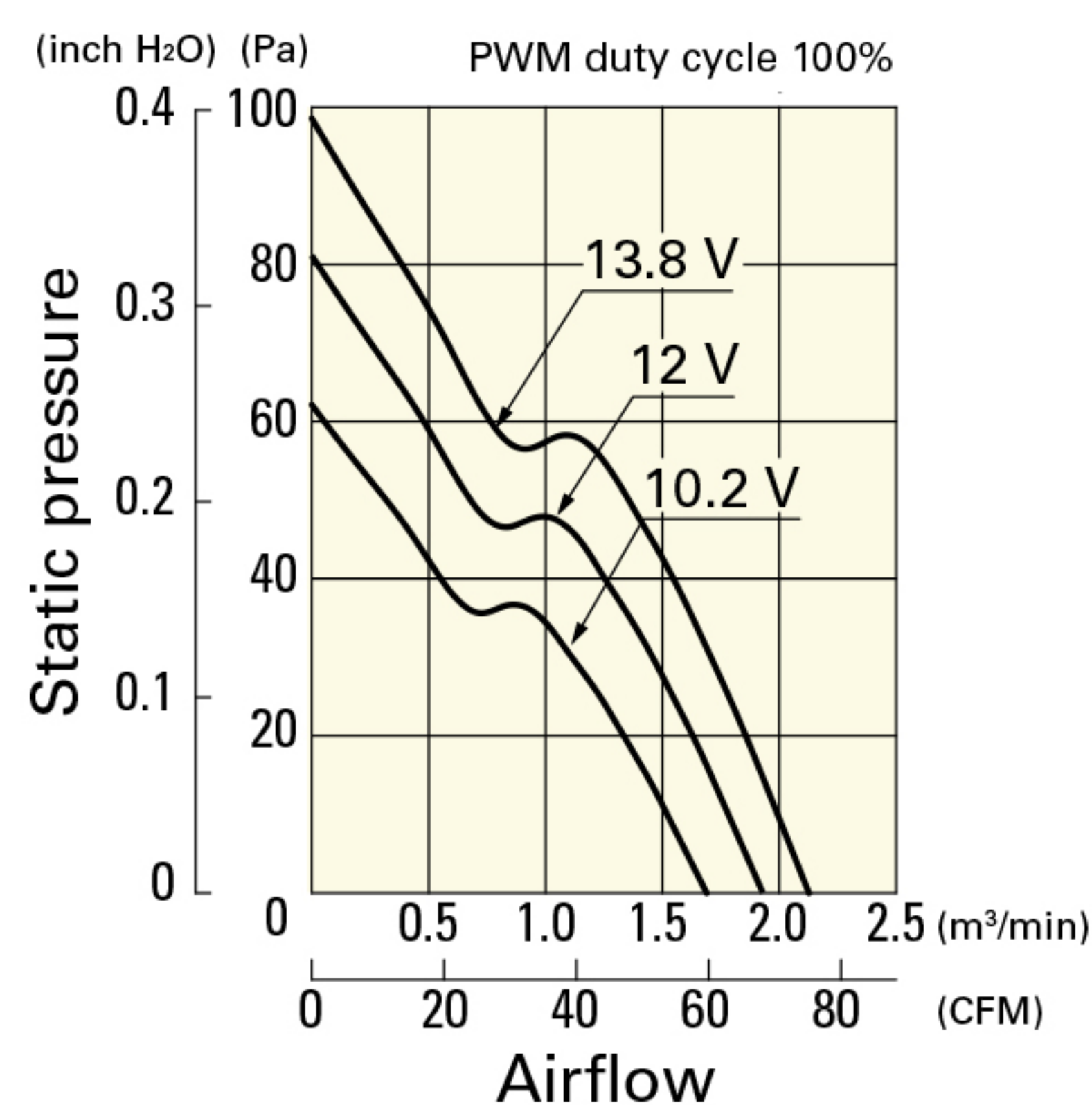


## 9GA0912P4G03 With pulse sensor with PWM control function

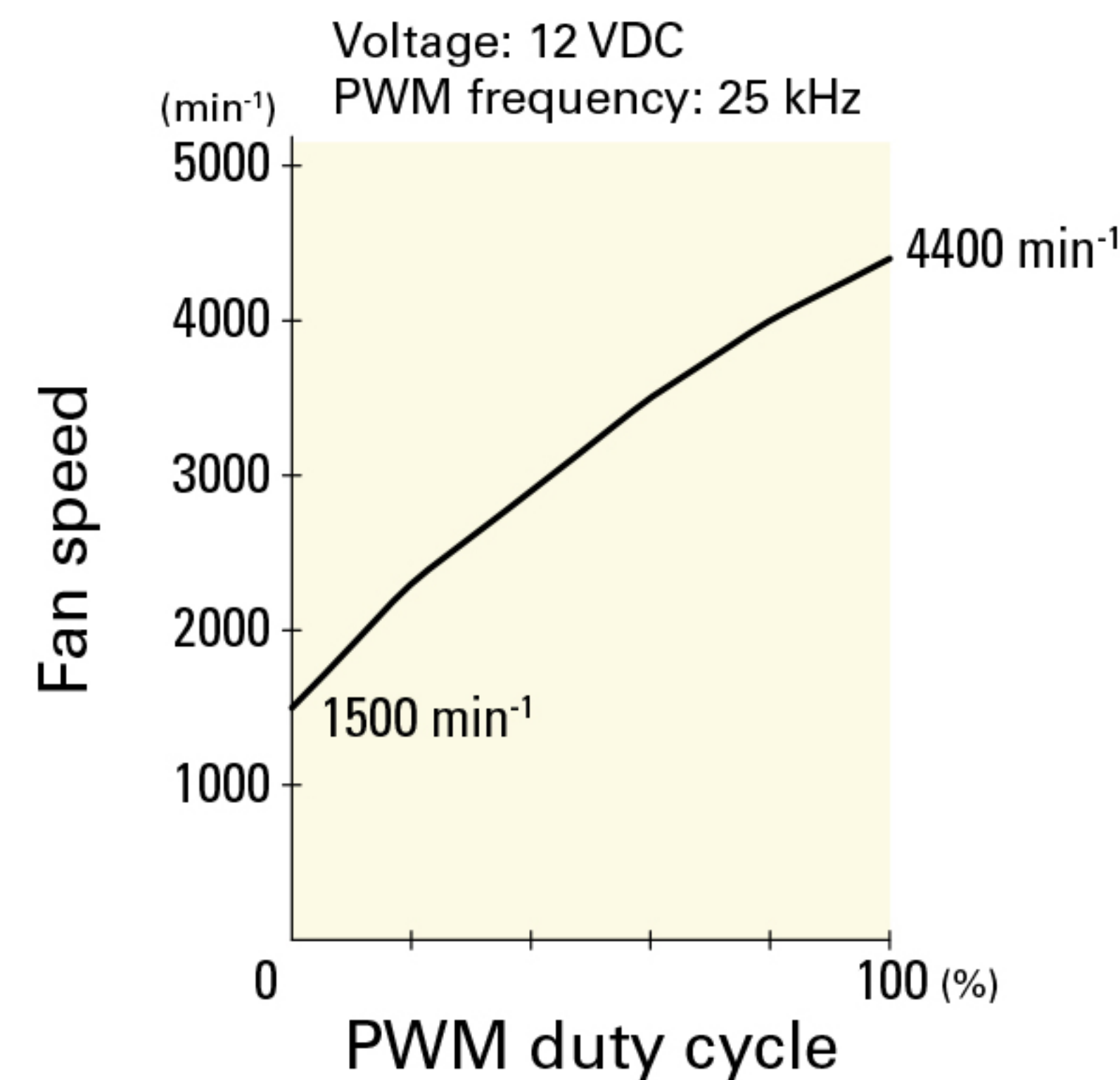
PWM duty cycle



Operating voltage range

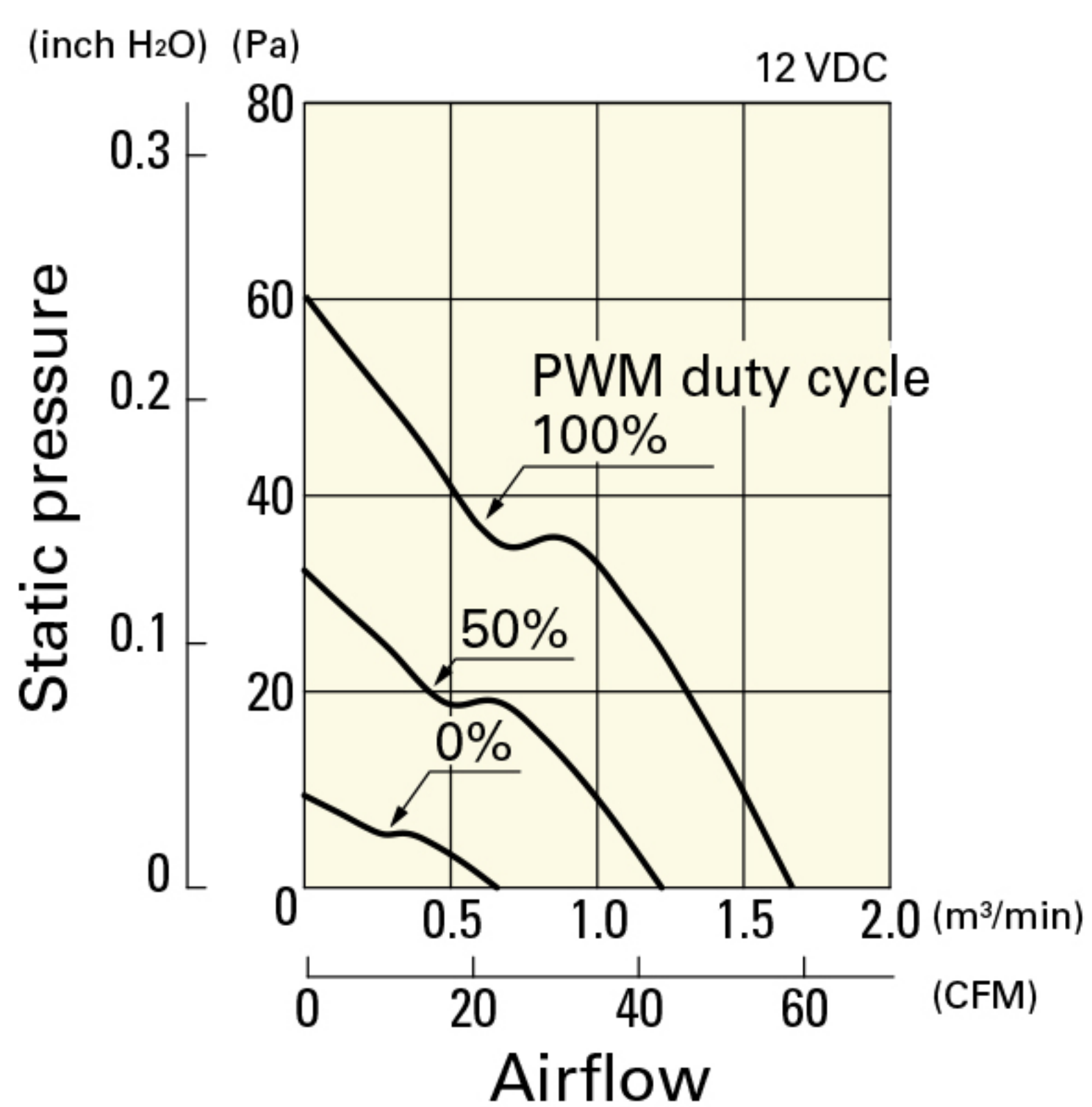


PWM duty - Speed characteristics example

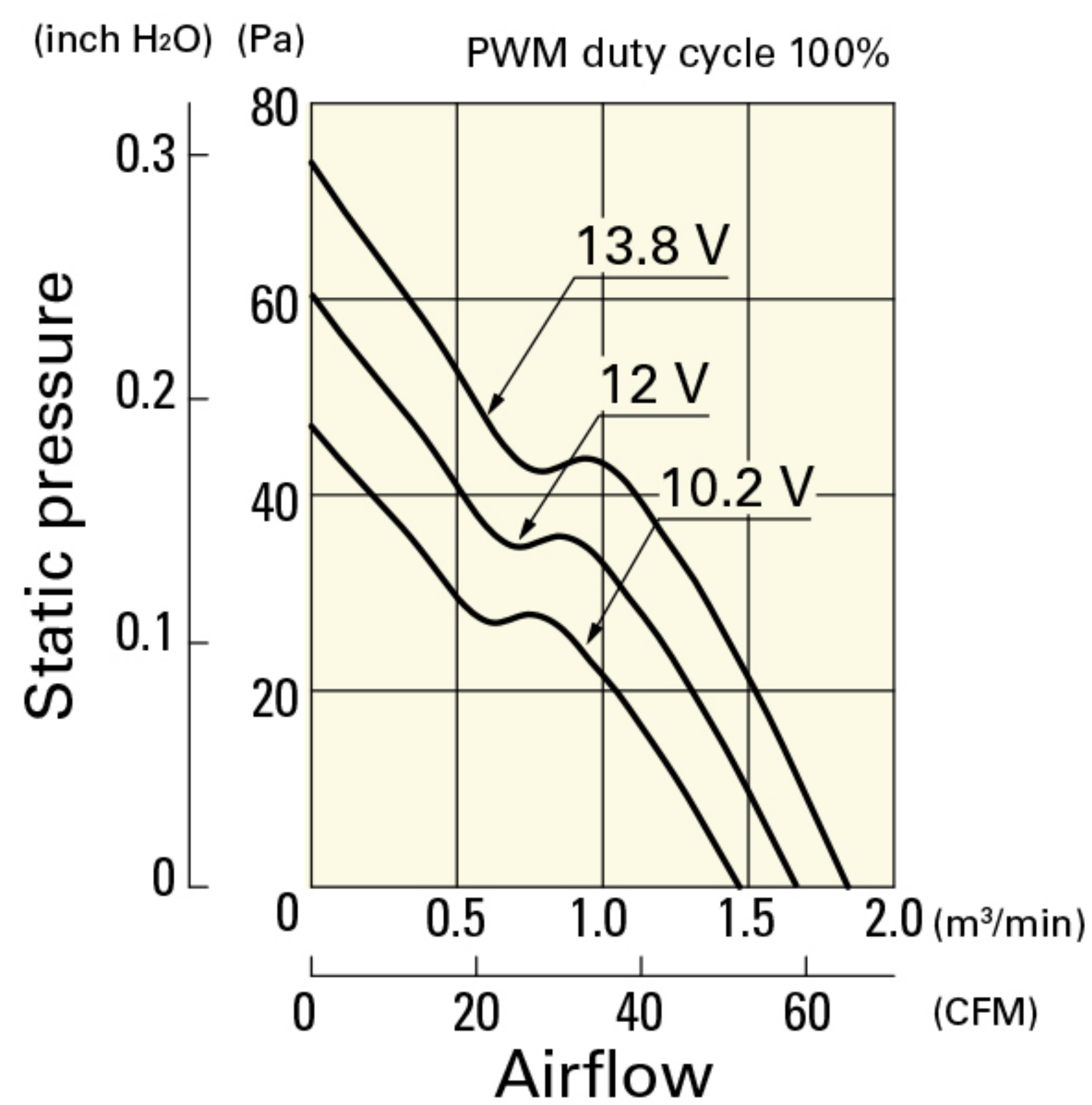


## 9GA0912P4S03 With pulse sensor with PWM control function

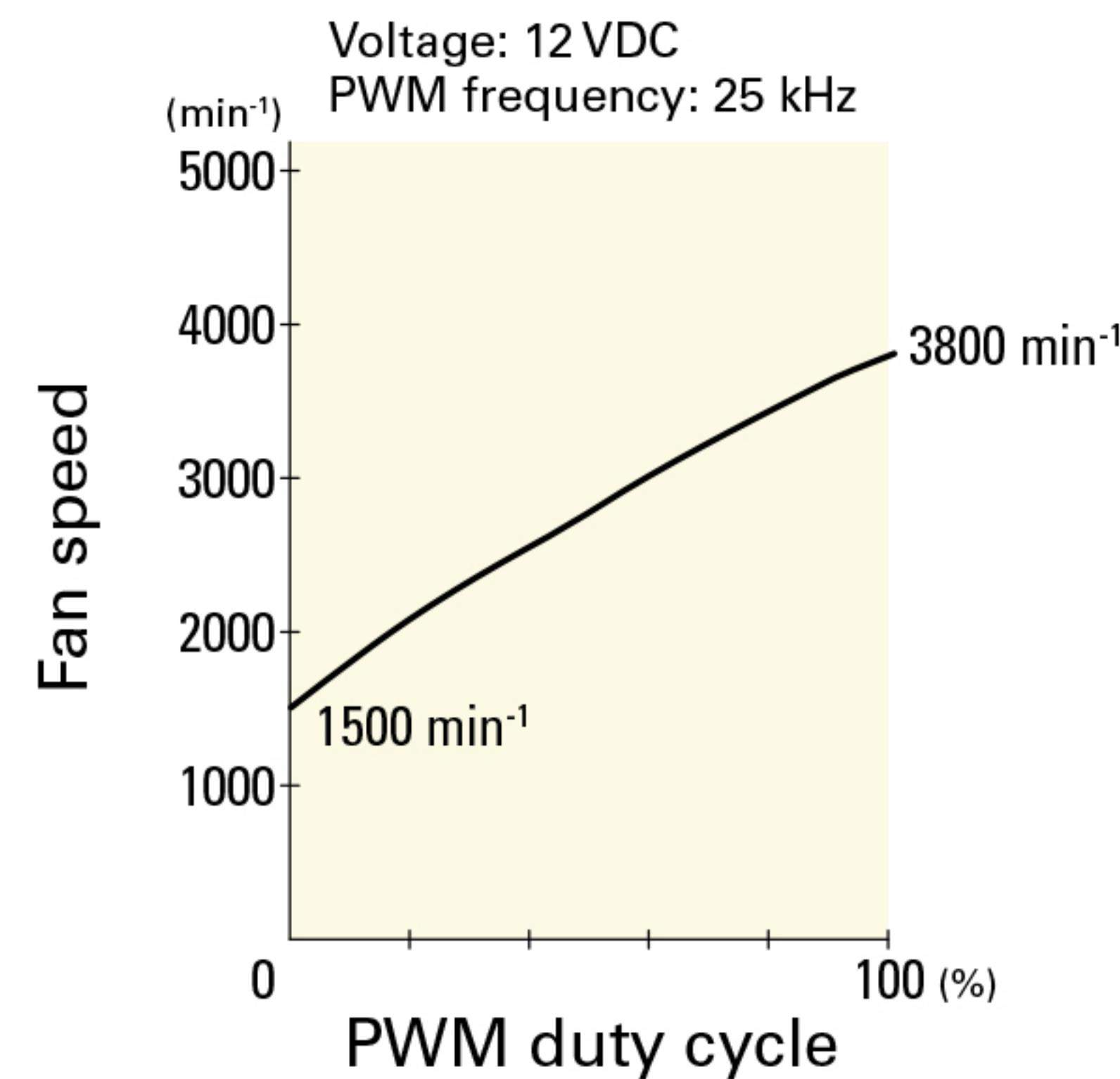
PWM duty cycle



Operating voltage range

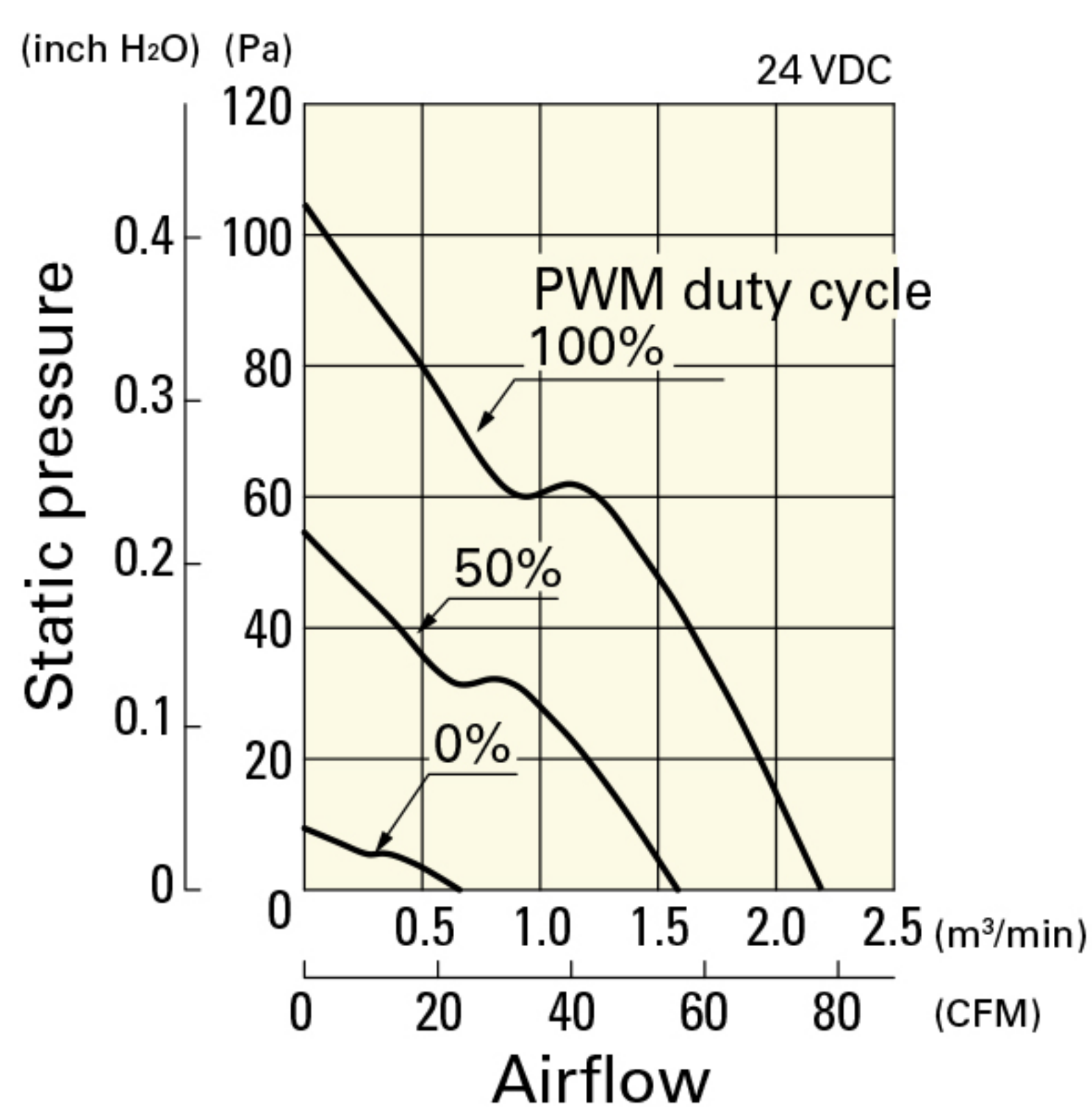


PWM duty - Speed characteristics example

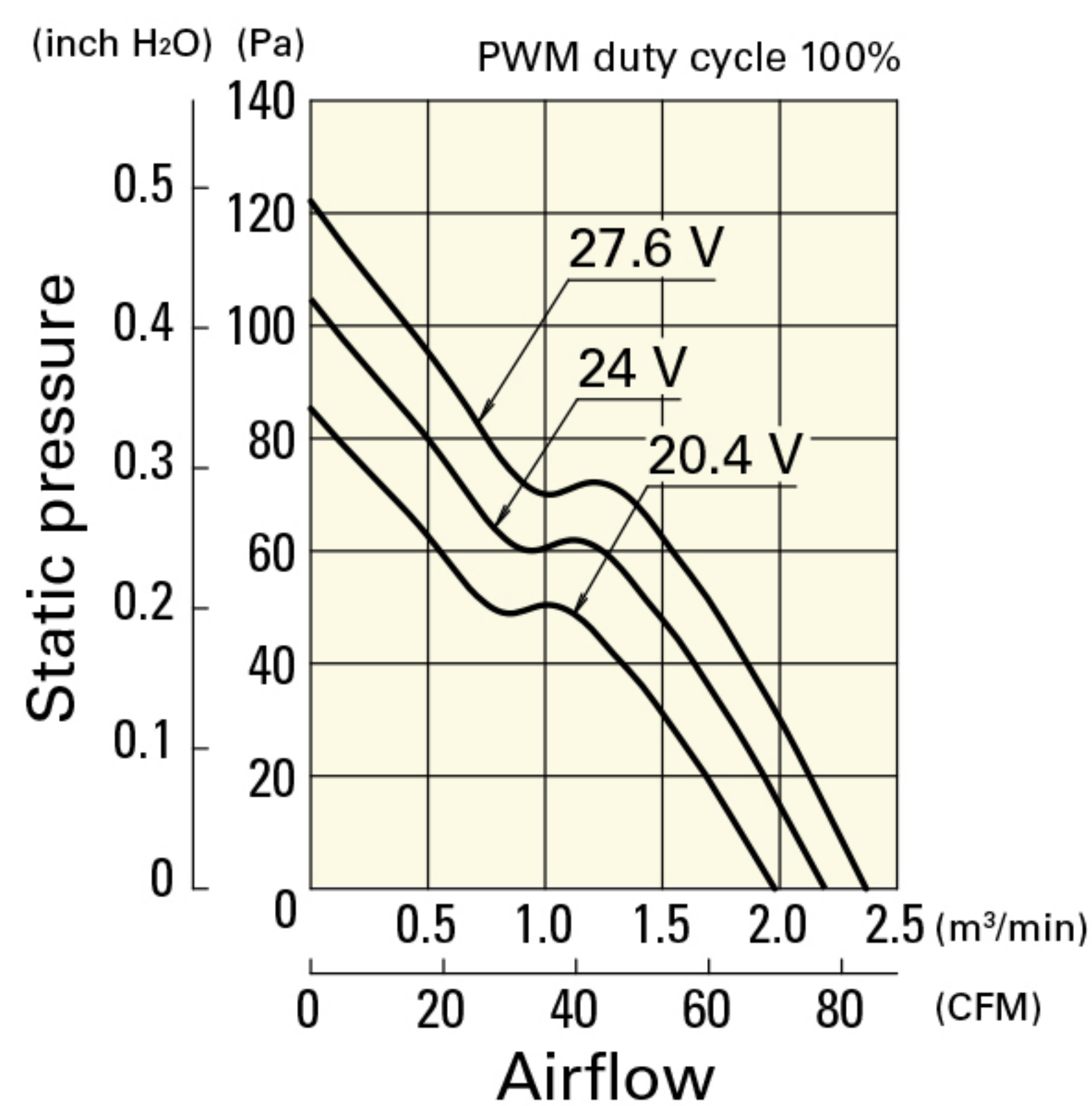


## 9GA0924P4J03 With pulse sensor with PWM control function

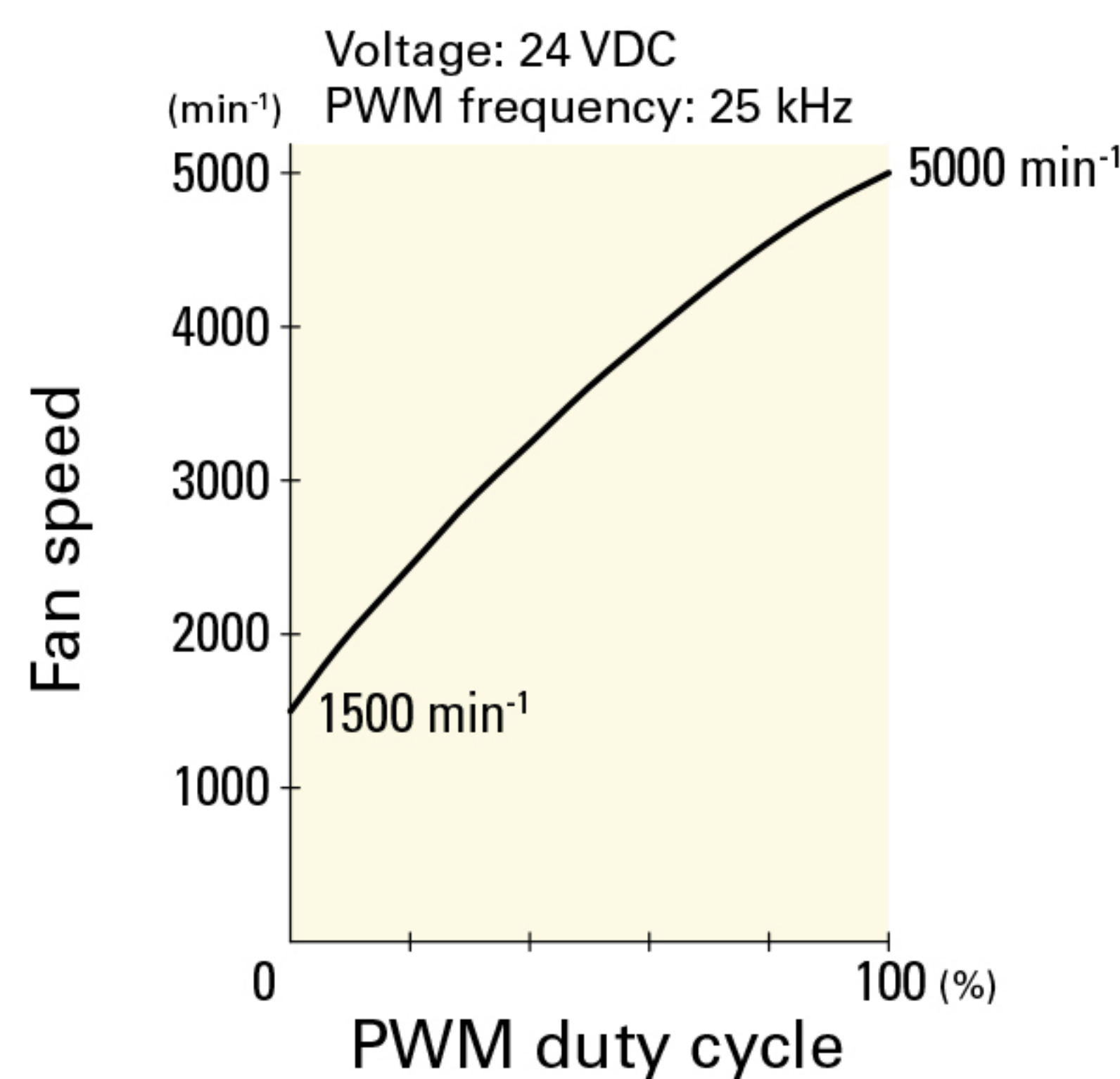
PWM duty cycle



Operating voltage range



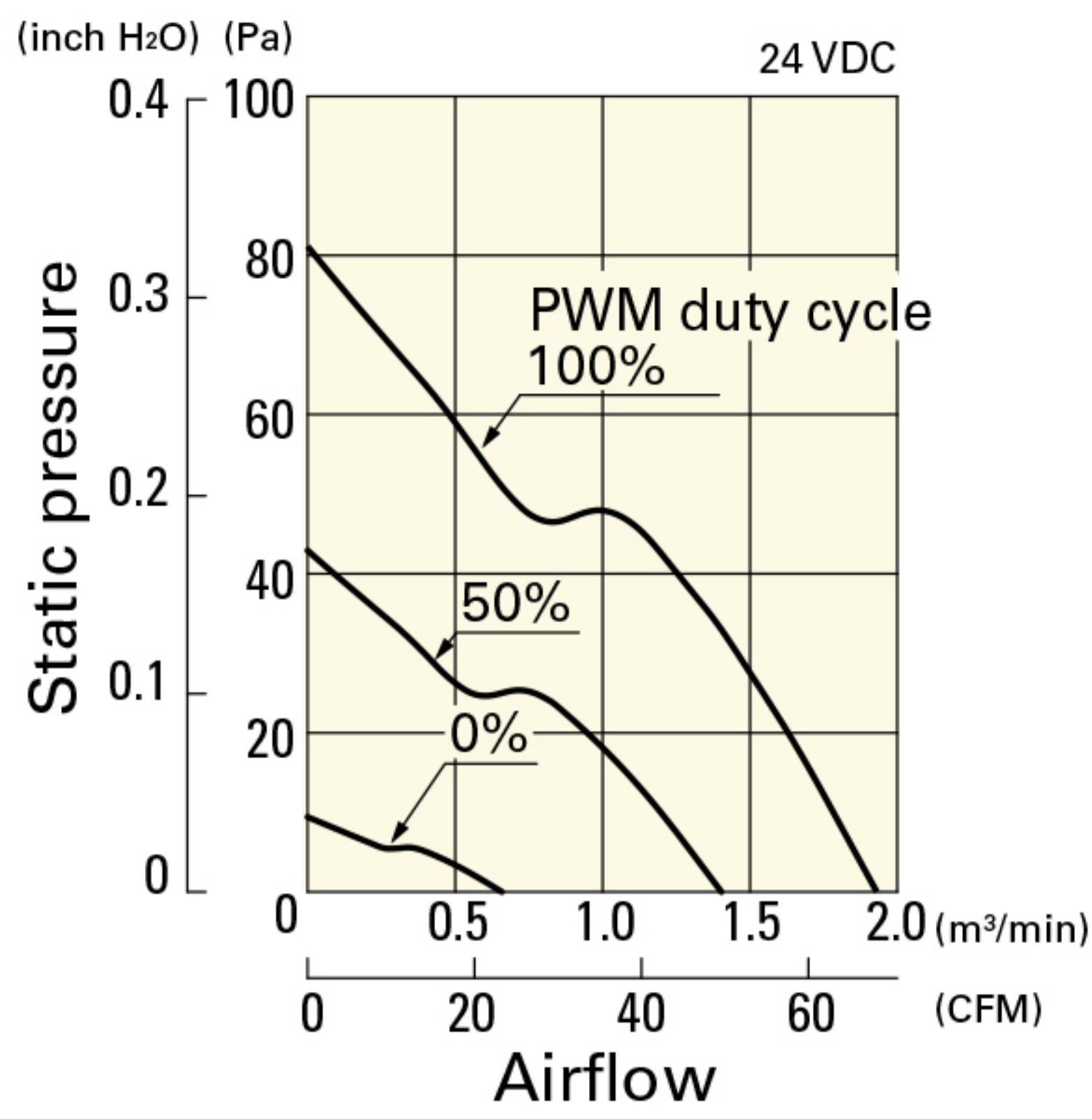
PWM duty - Speed characteristics example



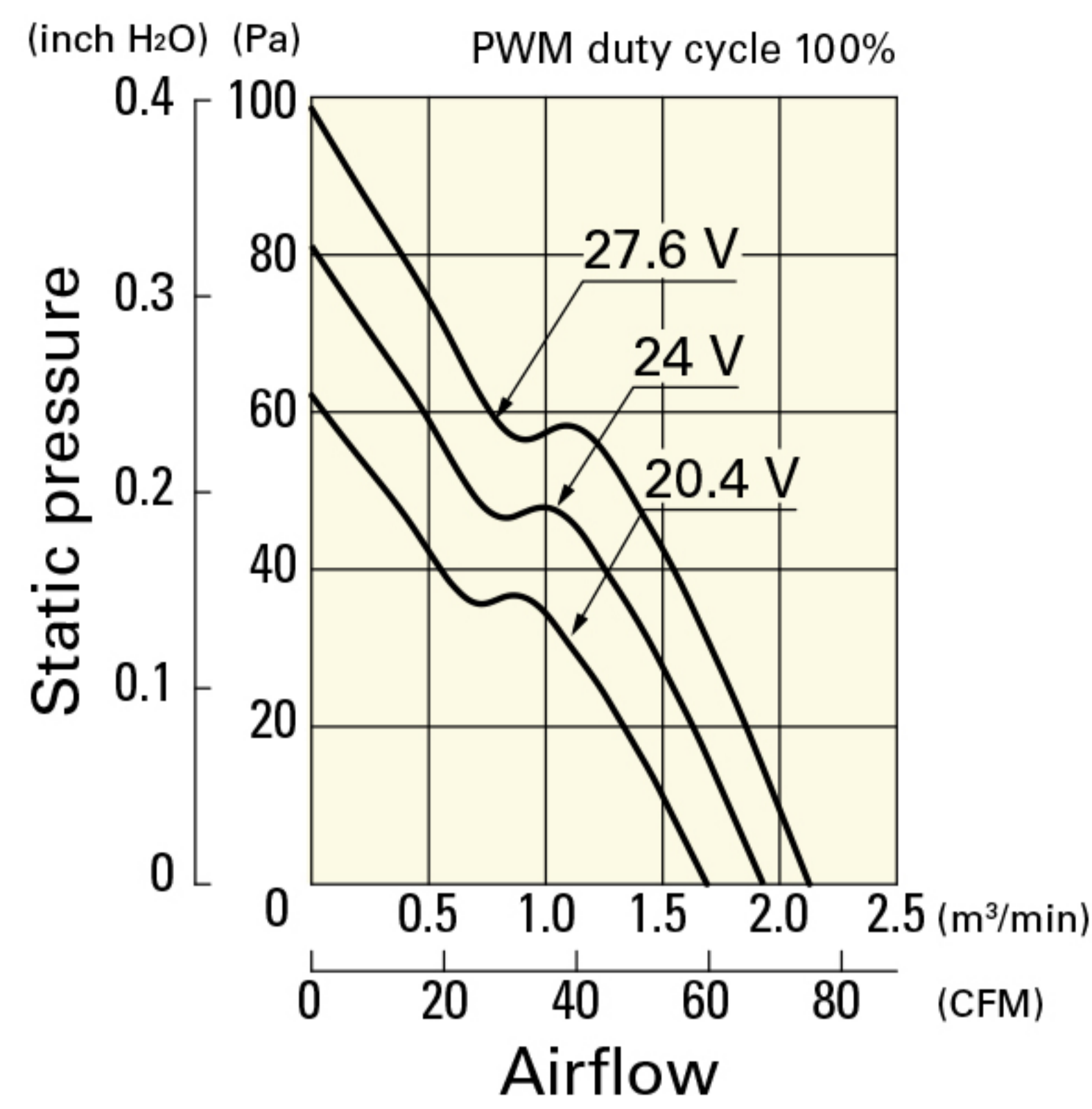
# Airflow - Static Pressure Characteristics / PWM Duty - Speed Characteristics Example

**9GA0924P4G03** With pulse sensor with PWM control function

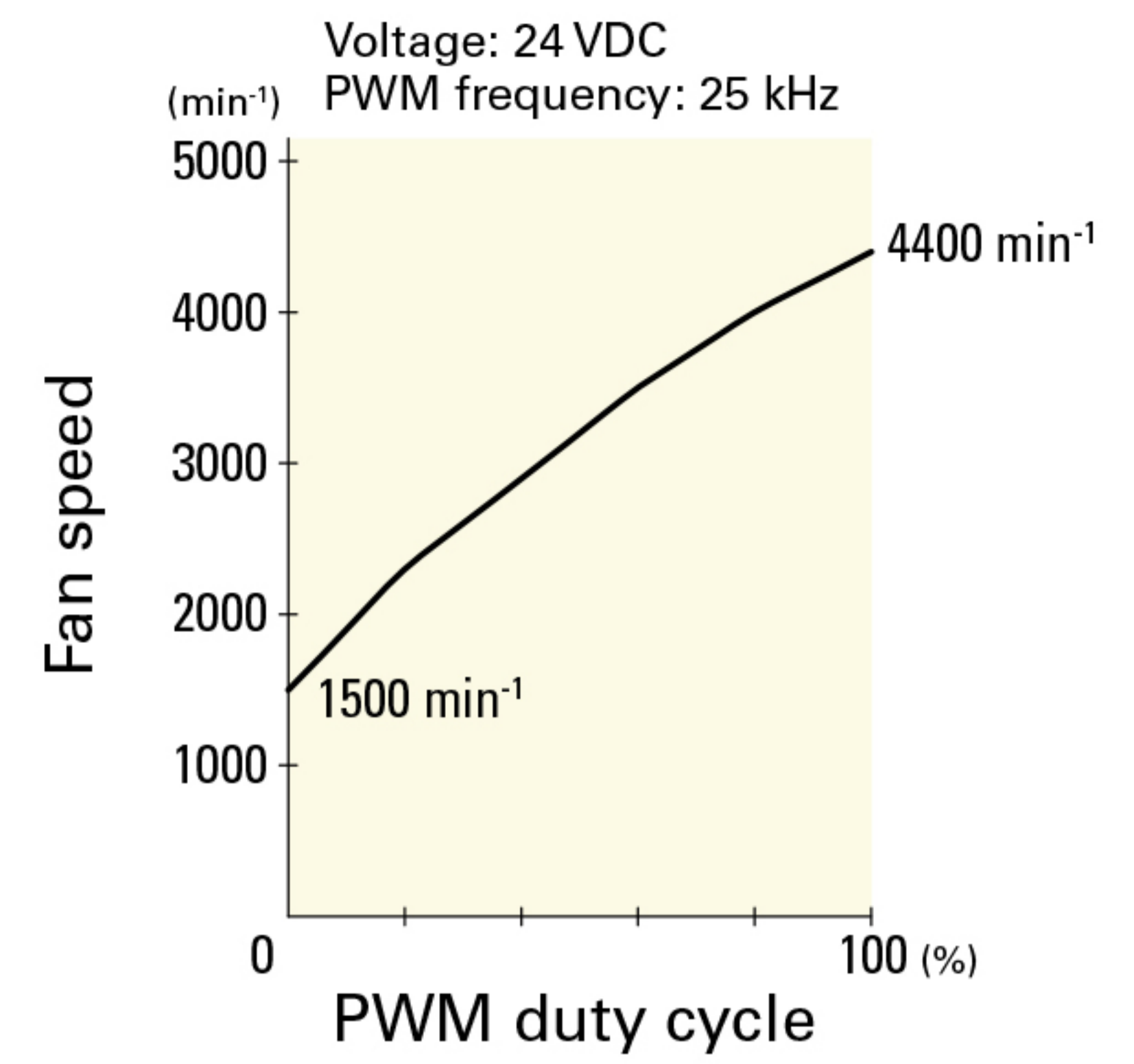
PWM duty cycle



Operating voltage range

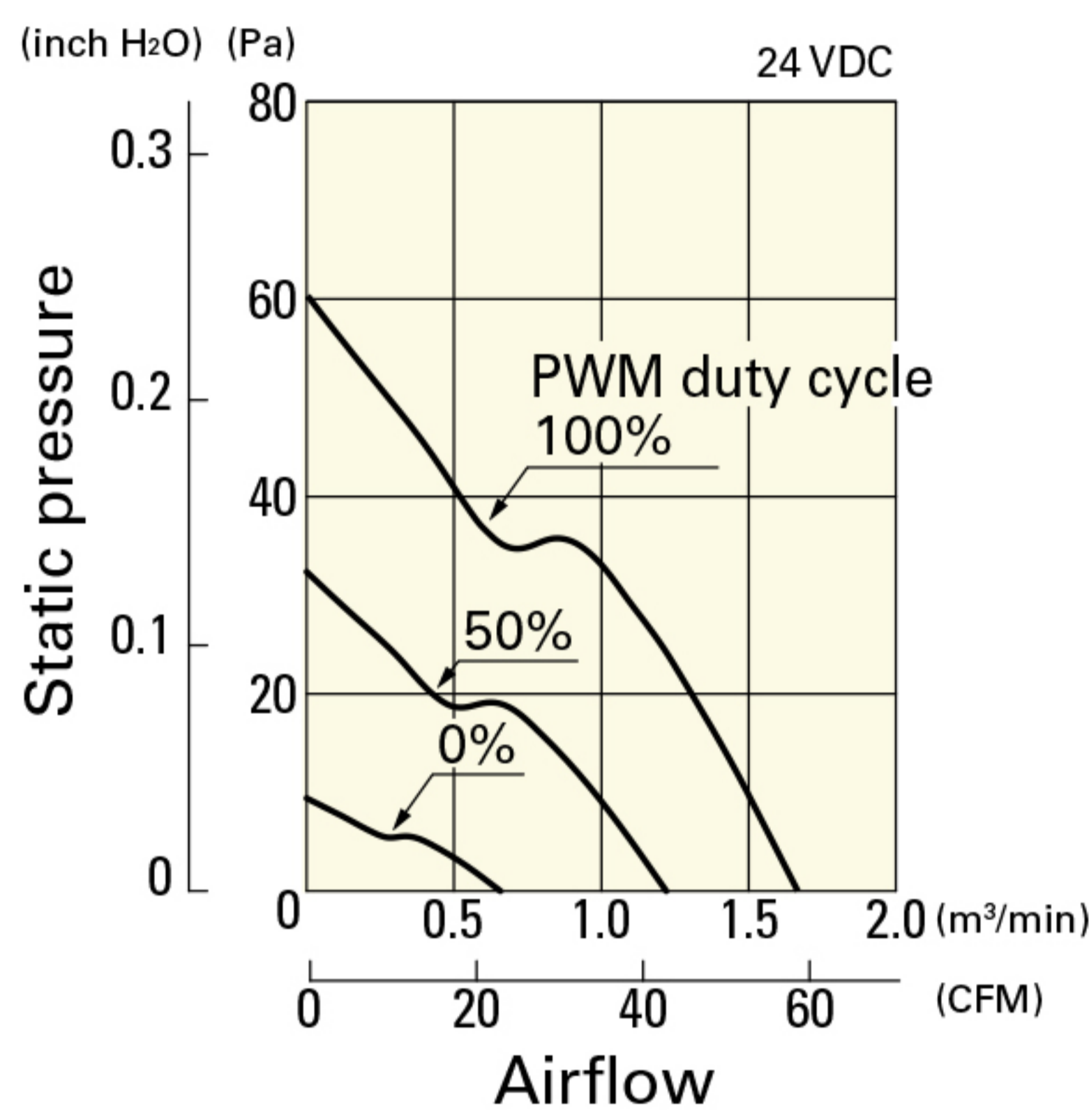


PWM duty - Speed characteristics example

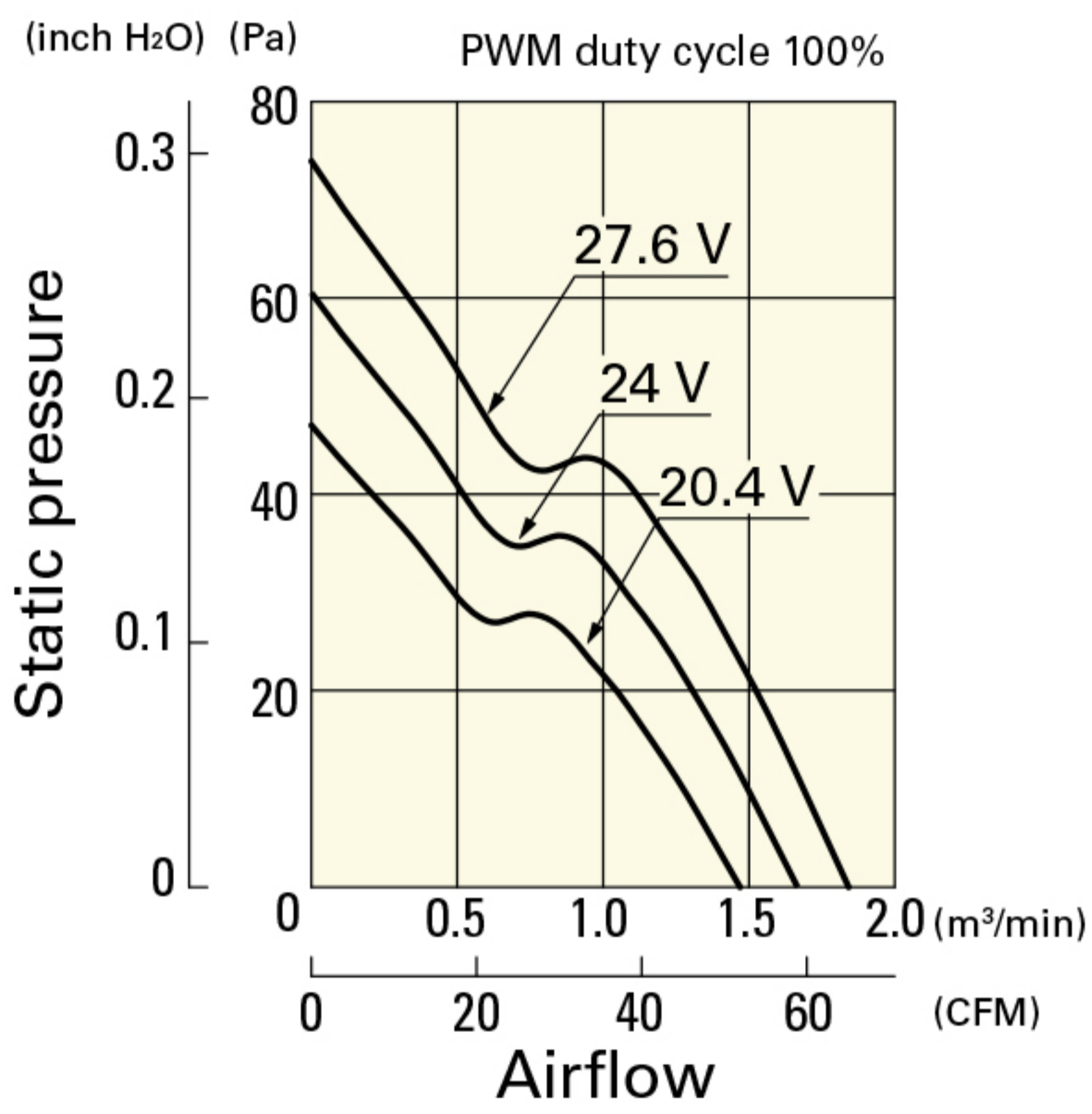


**9GA0924P4S03** With pulse sensor with PWM control function

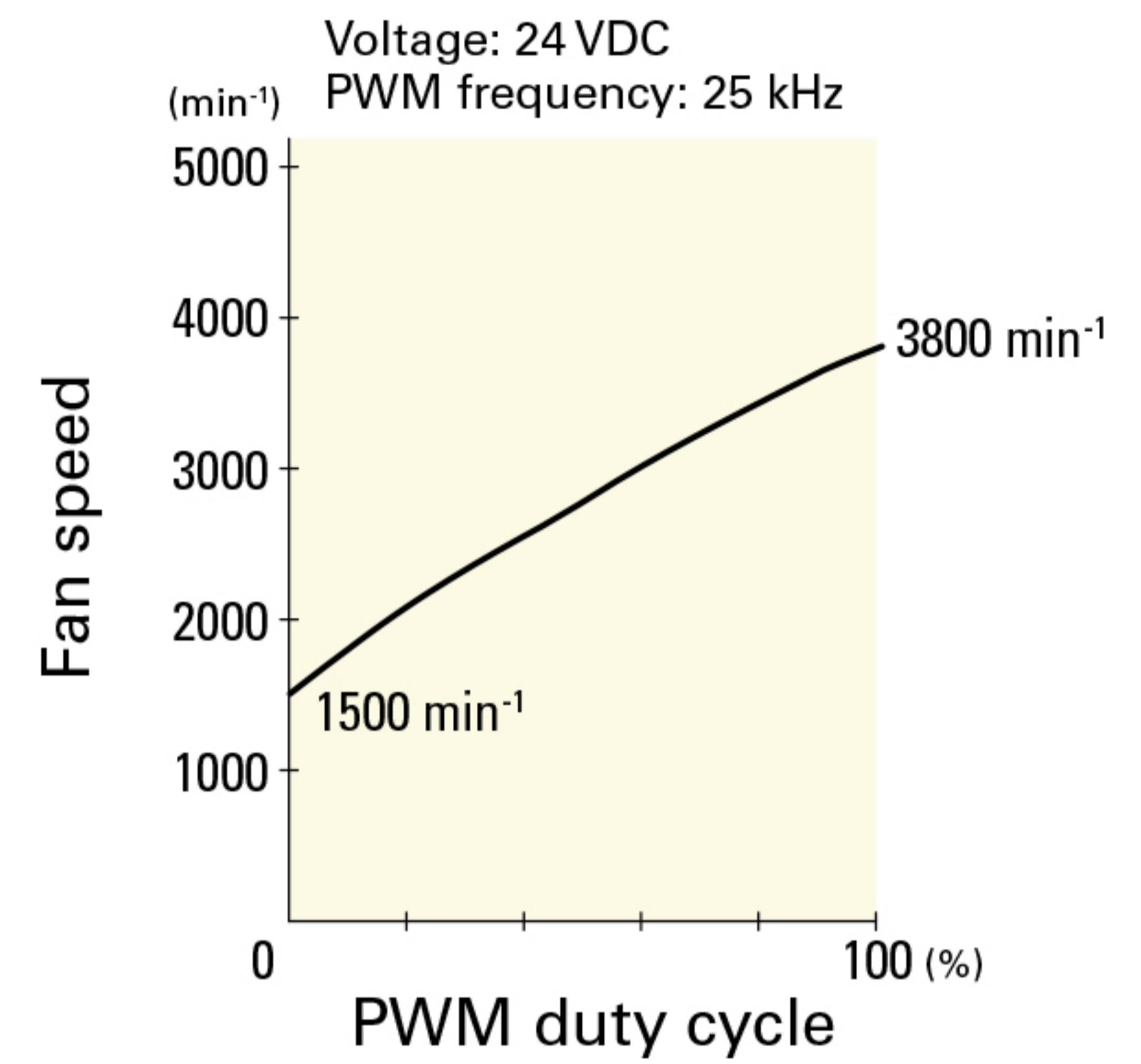
PWM duty cycle



Operating voltage range

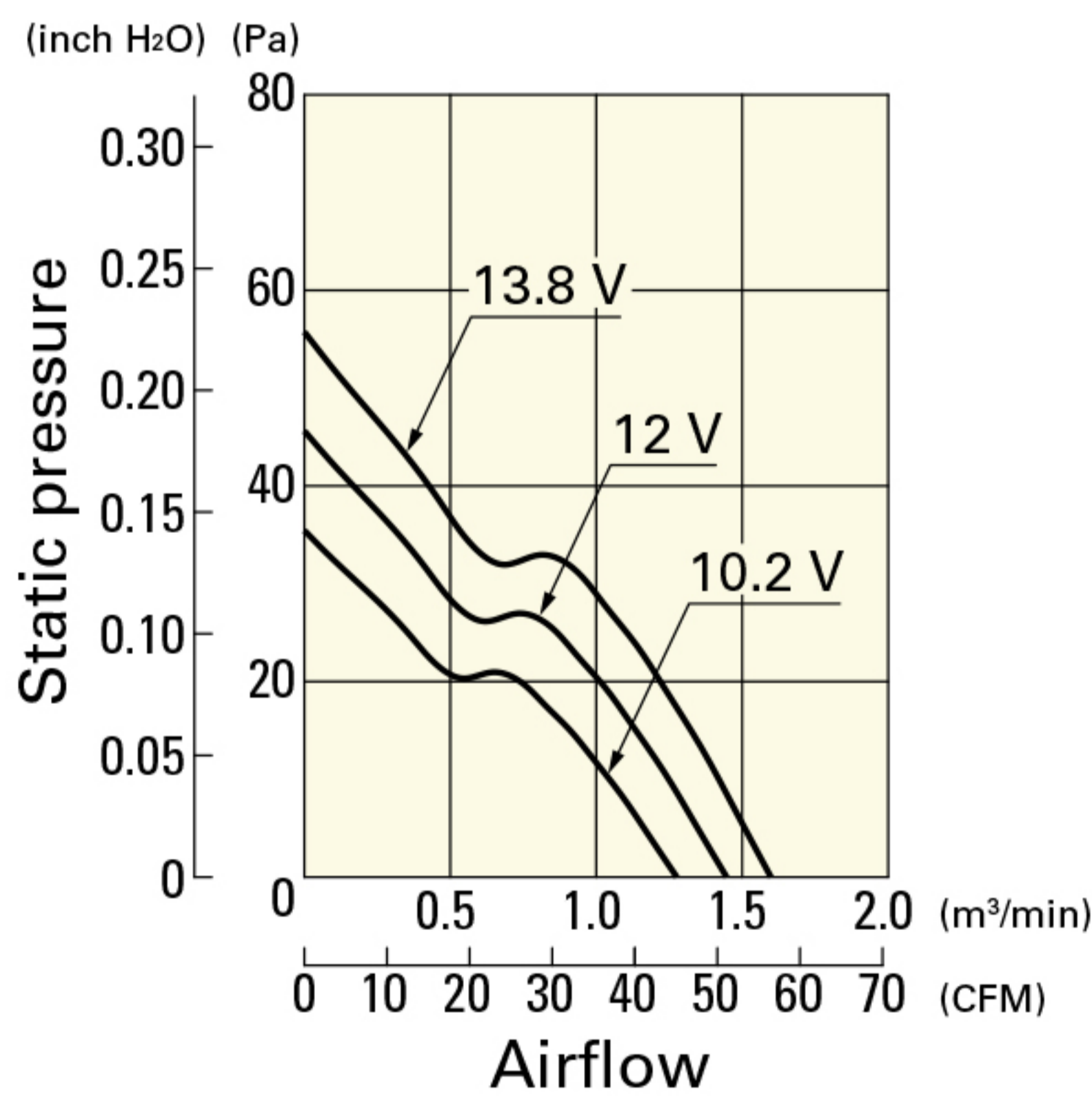


PWM duty - Speed characteristics example



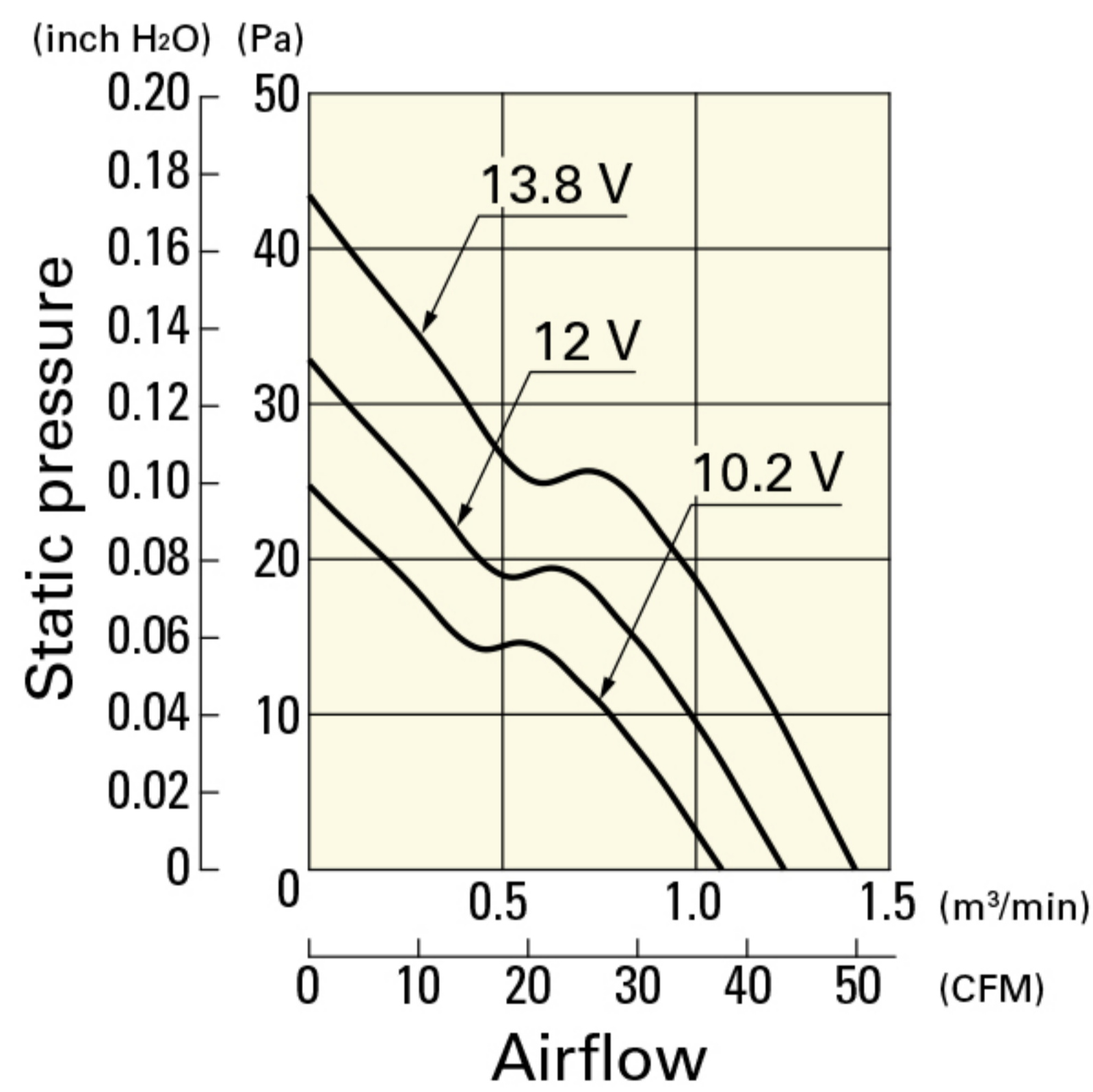
**9GA0912H401** With pulse sensor

Operating voltage range



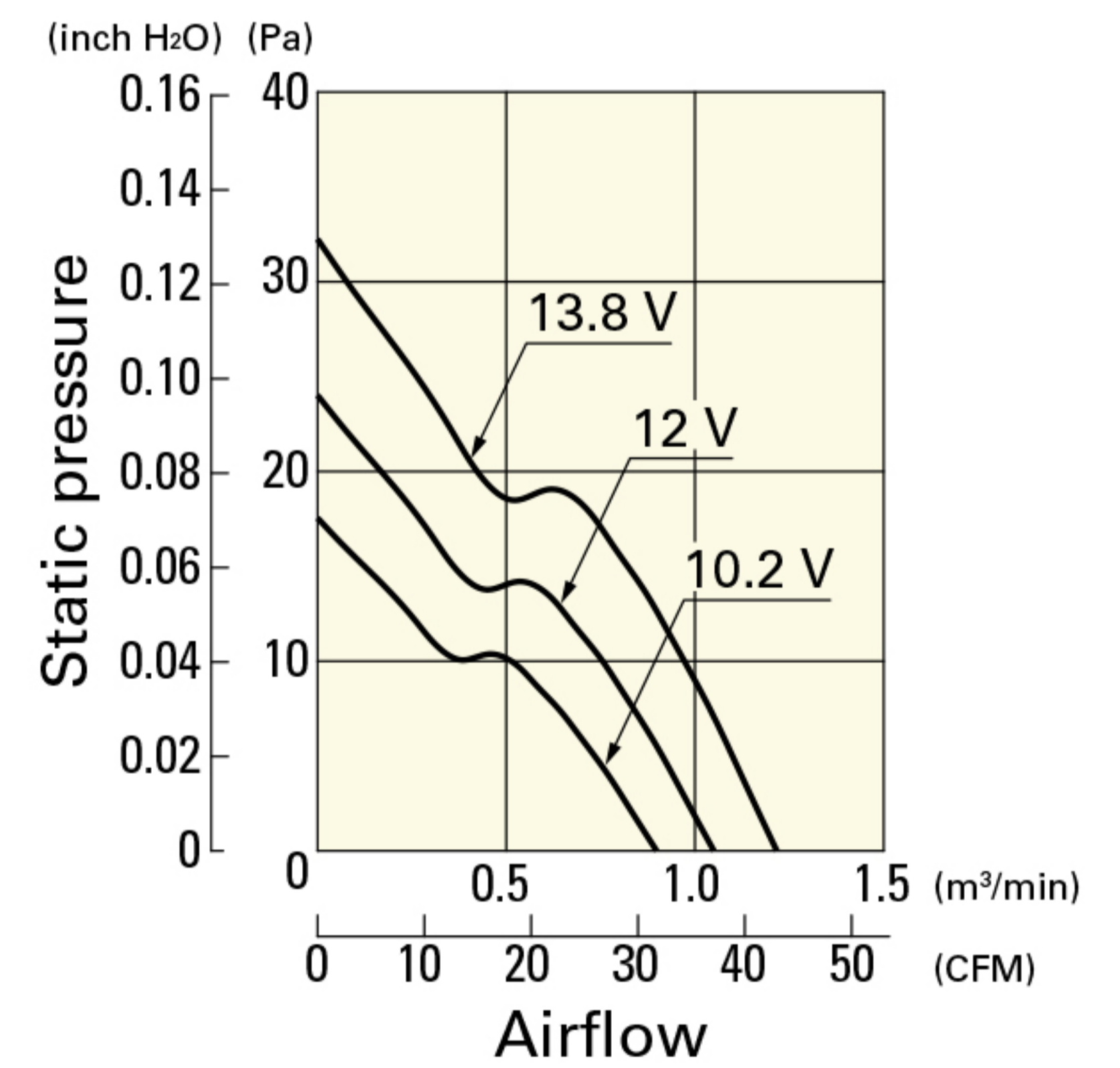
**9GA0912F401** With pulse sensor

Operating voltage range



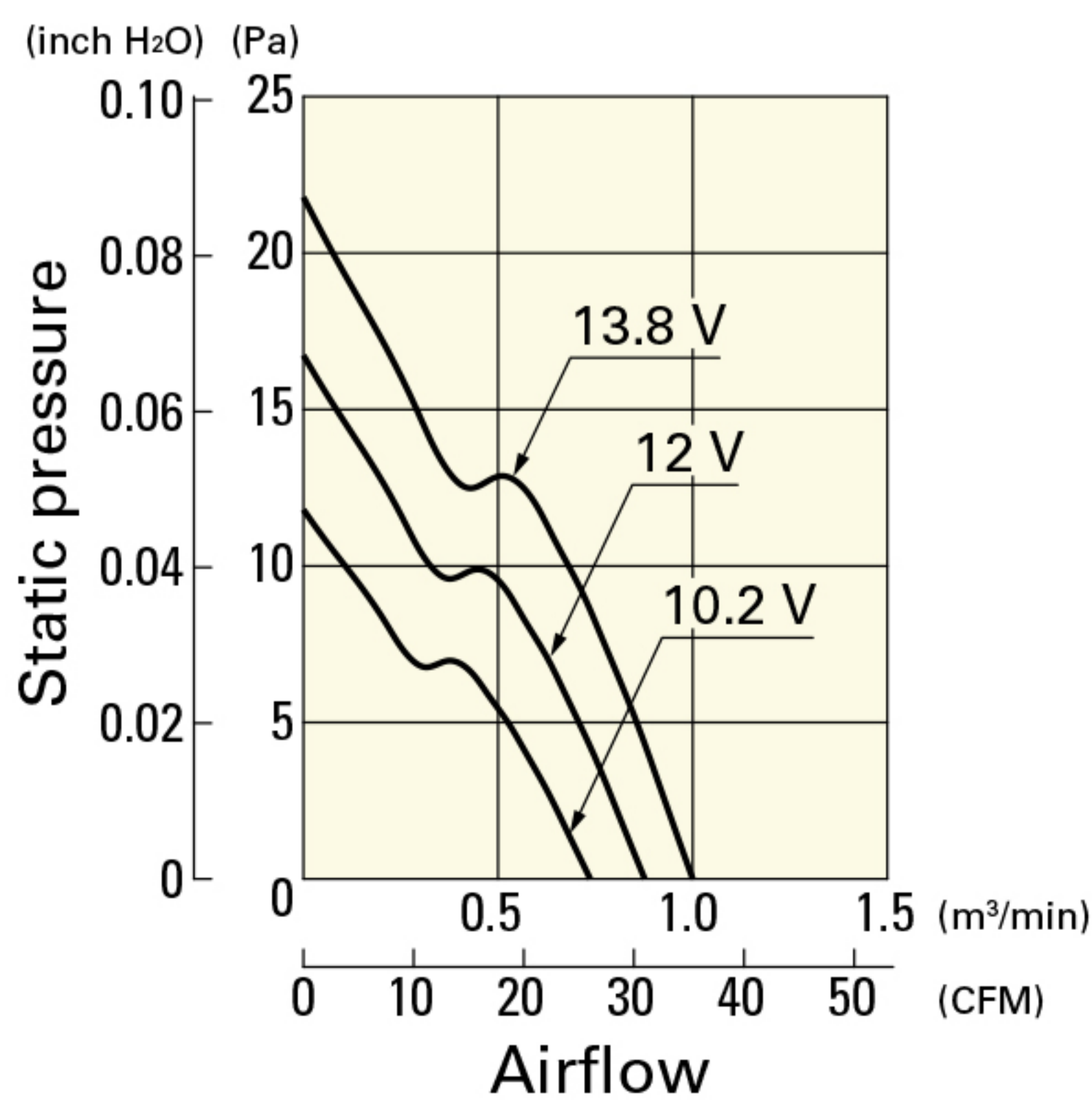
**9GA0912M401** With pulse sensor

Operating voltage range



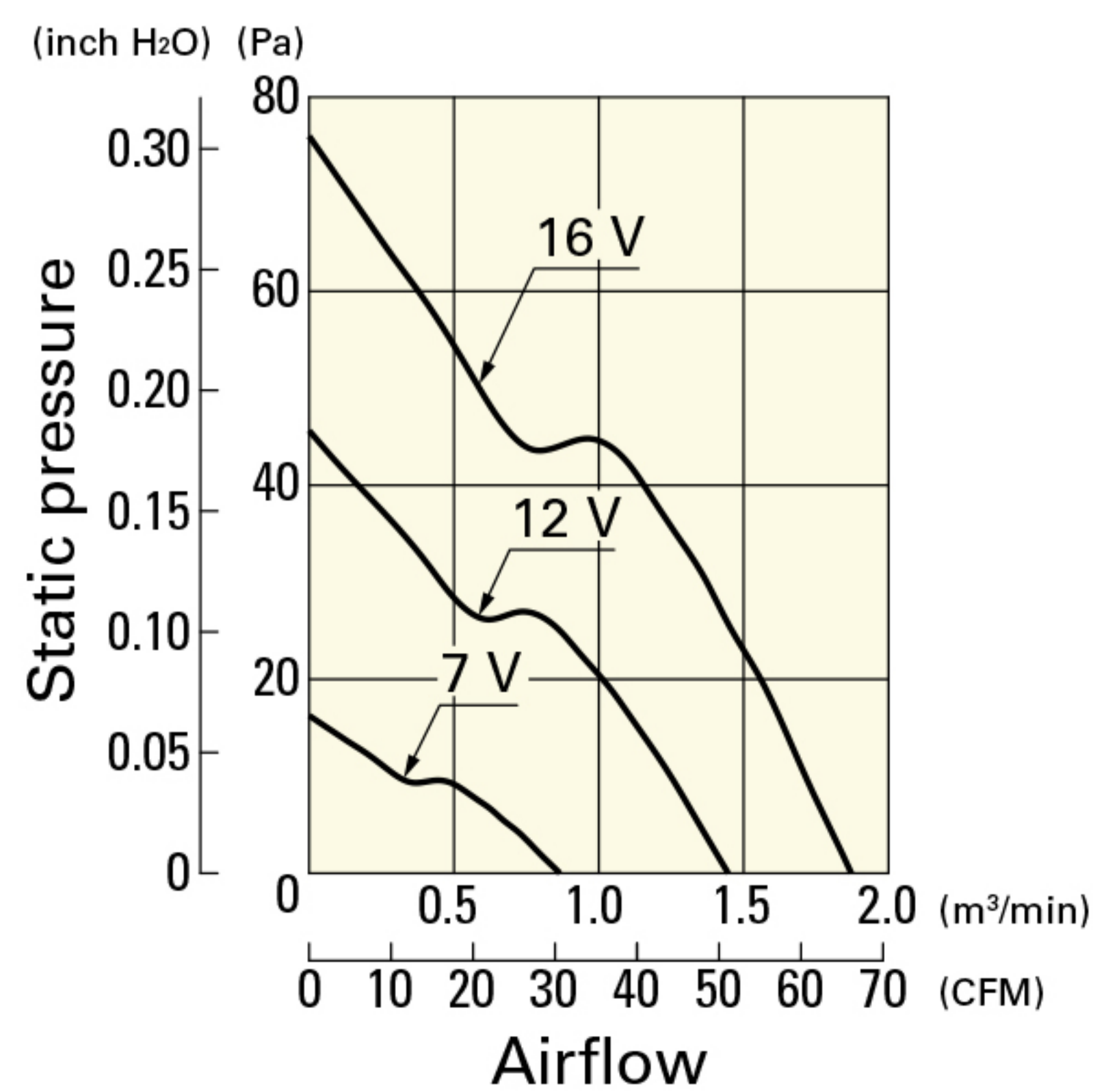
**9GA0912L401** With pulse sensor

Operating voltage range



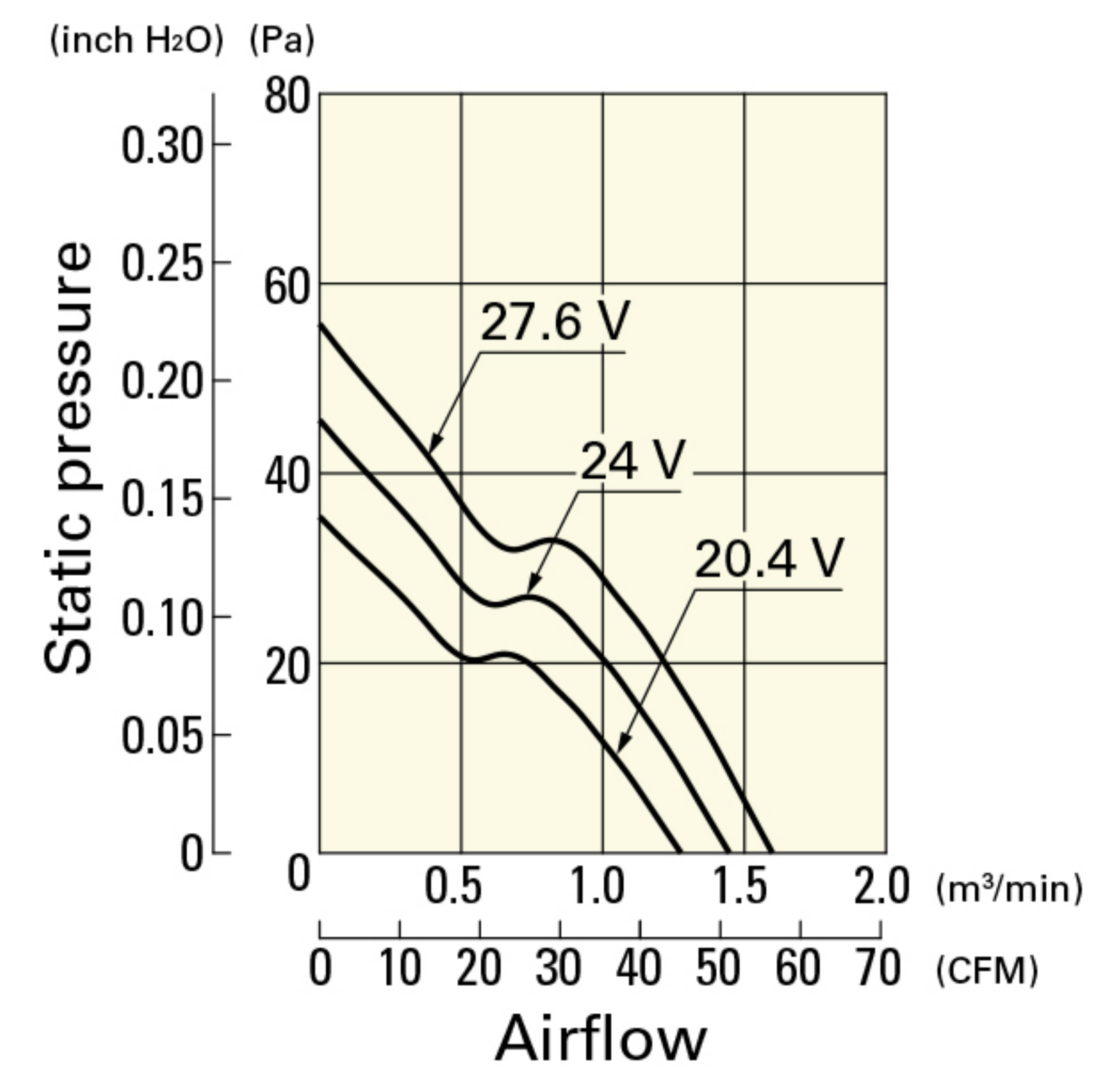
**9GA0912W401** With pulse sensor

Operating voltage range



**9GA0924H401** With pulse sensor

Operating voltage range



# Airflow - Static Pressure Characteristics

DC  
DC Fan 92 mm sq.

## 9GA0924F401 With pulse sensor

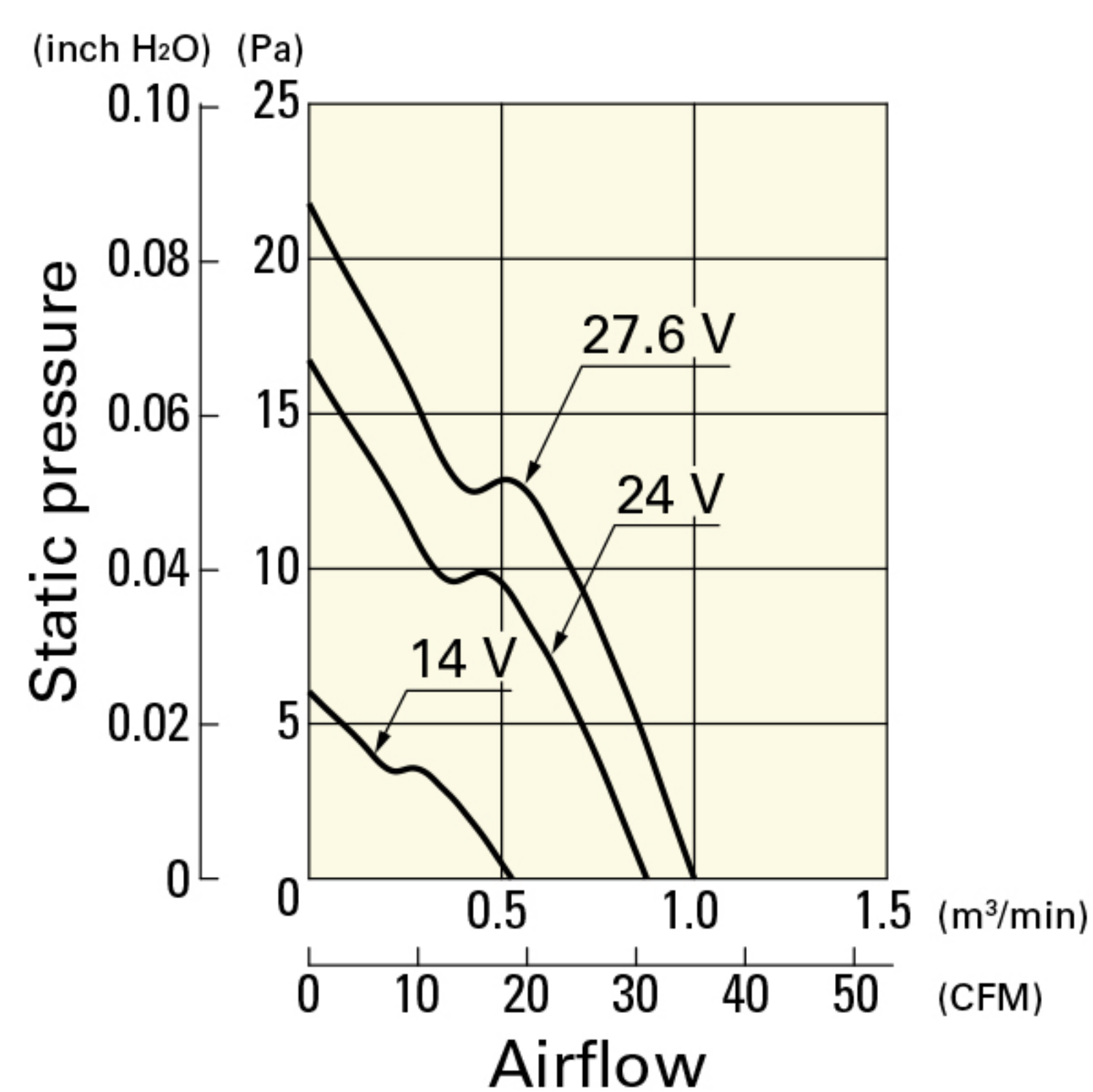
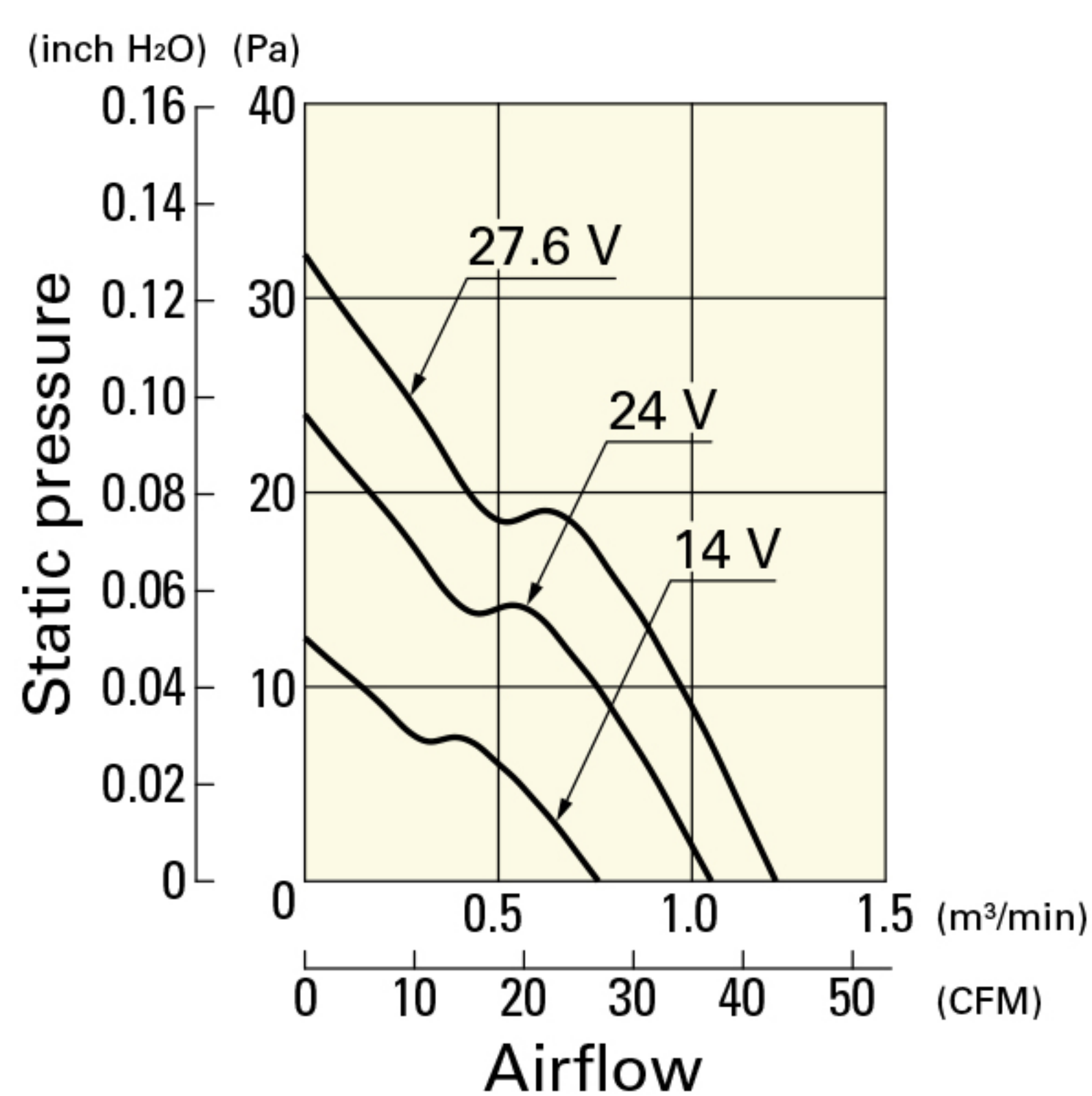
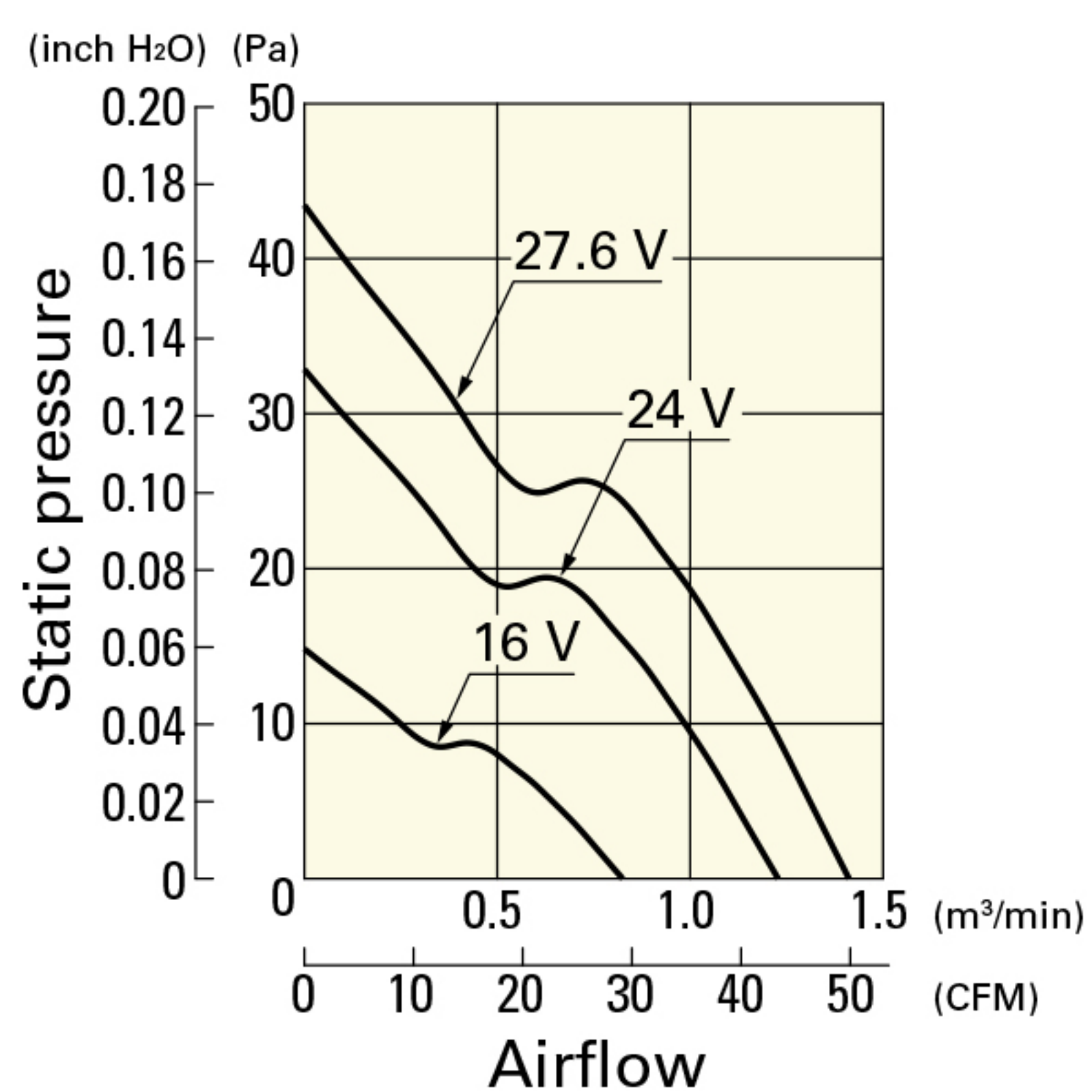
## 9GA0924M401 With pulse sensor

## 9GA0924L401 With pulse sensor

Operating voltage range

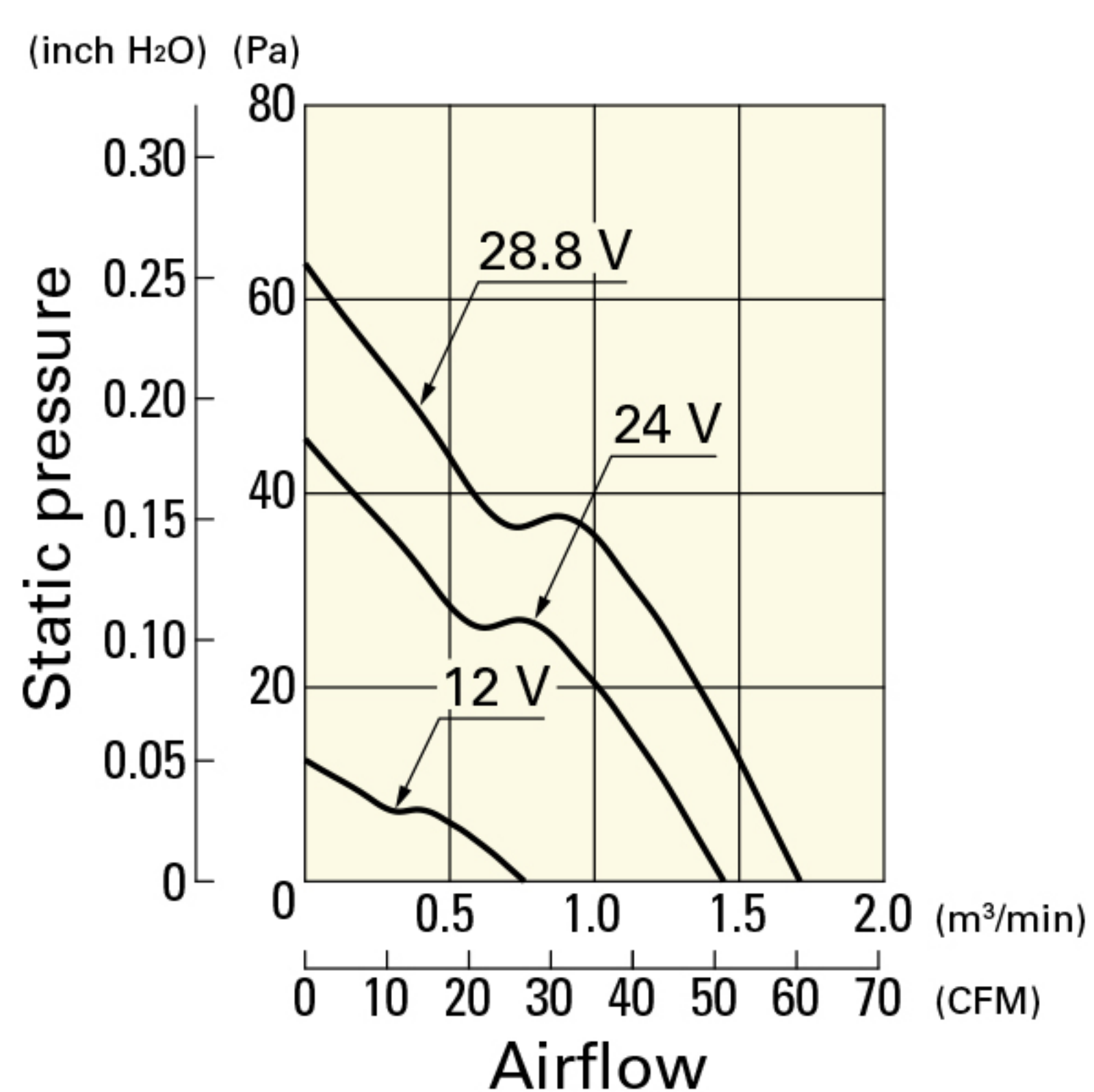
Operating voltage range

Operating voltage range

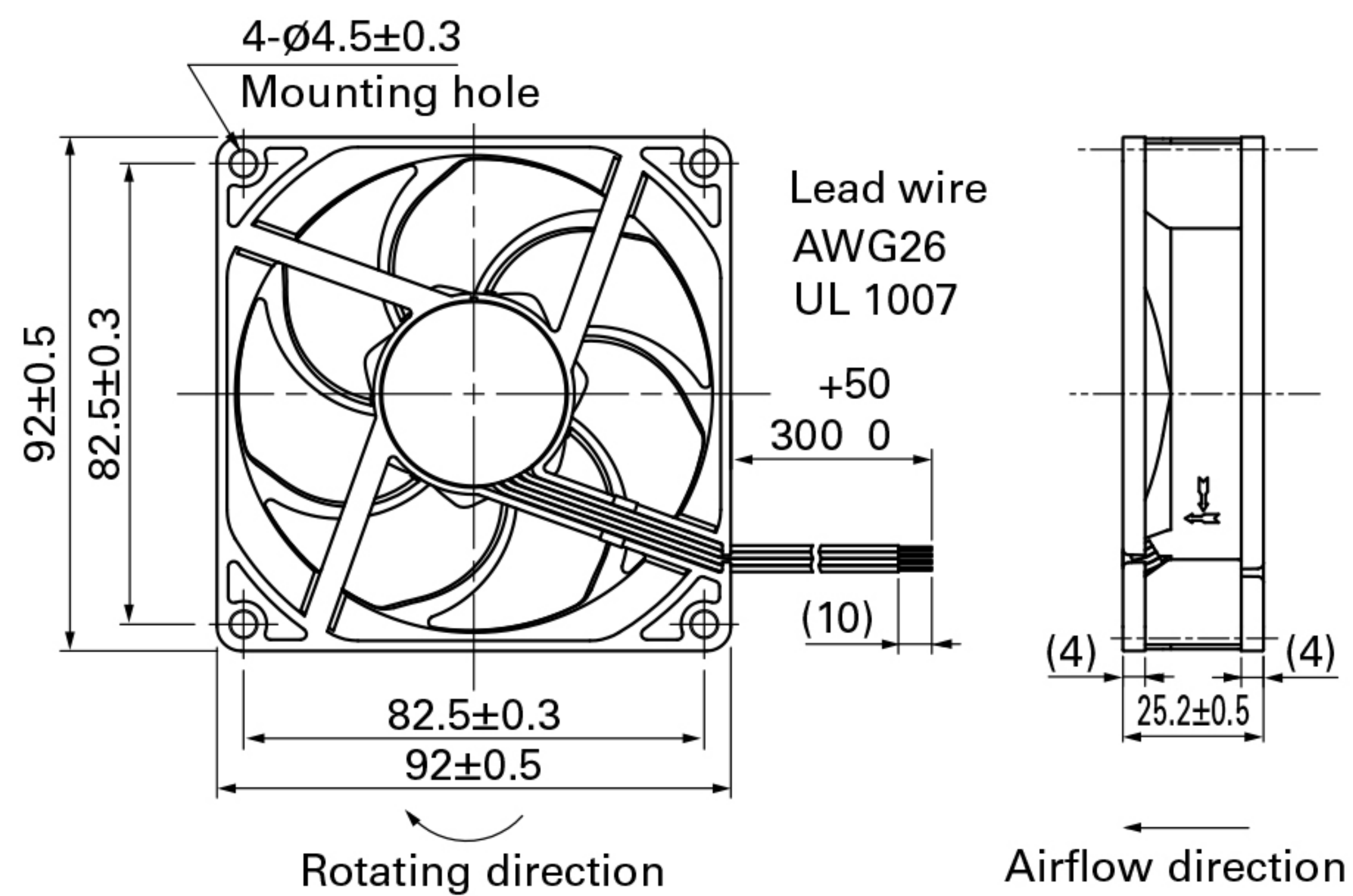


## 9GA0924W401 With pulse sensor

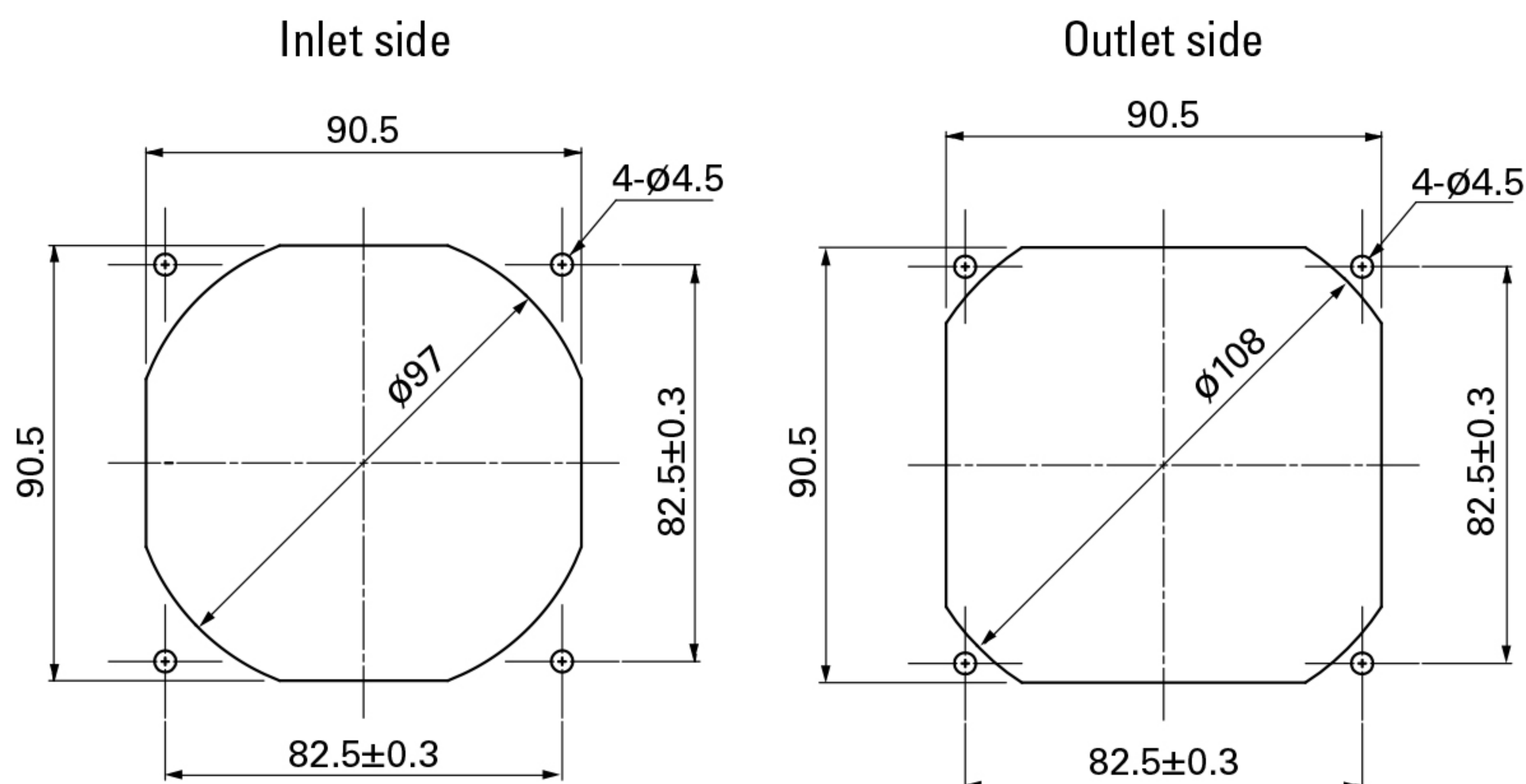
Operating voltage range



## Dimensions (unit: mm) (With ribs)



## Reference Dimensions of Mounting Holes and Vent Opening (unit: mm)



## Options

### Finger guards

page: p. 532

Model no.: 109-099E, 109-099H, 109-099C

### Resin finger guards

page: p. 539

Model no.: 109-1001G

### Resin filter kits

page: p. 540

Model no.: 109-1001F13 (13PPI), 109-1001F20 (20PPI),  
109-1001F30 (30PPI), 109-1001F40 (40PPI)