

# Electric Expansion Valves

Fujikoki America Inc. 4040 Bronze Way, Dallas TX 75237  
Tel + 1-214-333-4266 / www.fujikoki.com

**DIRECT-DRIVE TYPE: CAM • CVM • HAM • LFM**

Fujikoki custom manufactures and sells electric expansion valves. To date, more than **200,000,000** electric expansion valves have demonstrated proven reliability around the globe.

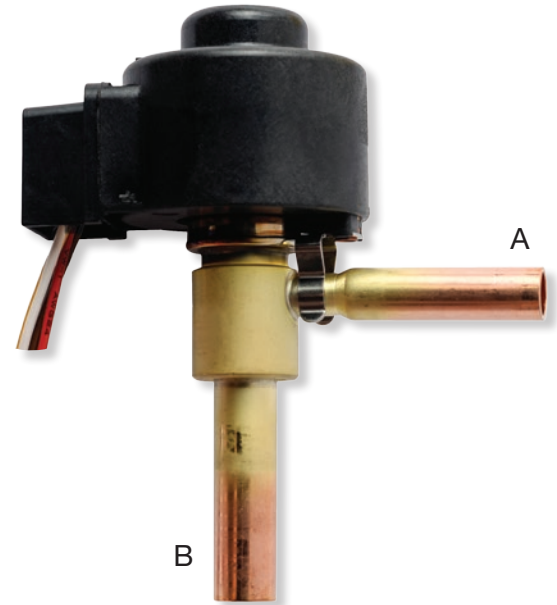
## Features

- Precise control using stepper motor with 500 step resolution (250 for LFM).
- Only energized during stepping (moving valve member position).  
Valve will remain in place without power, resulting in energy savings.
- Can be used with multiple refrigerants.
- CVM model includes Check Valve function for full reverse flow.

## Applications

- Room air conditioner
- Packaged air conditioner
- Refrigerated display case
- And more

**Refrigerants:** R407C, R410A, R404A



CVM Valve

SPECIFICATIONS		FUJIKOKI PRODUCTS				
		CAM	CVM	HAM	LFM	
Orifice Diameter		φ1.3mm~2.4mm	φ1.3mm~φ2.4mm	φ2.4mm~φ3.2mm	φ5.3mm~φ6.5mm	
Ambient Temperature		-30~60°C (-22~140°F) {50% duty cycle}	-30~60°C (-22~140°F) {50% duty cycle}	-30~60°C (-22~140°F) {50% duty cycle}	-30~60°C (-22~140°F) {50% duty cycle}	
Fluid Temperature		-30~70°C (-22~158°F)	-30~70°C (-22~158°F)	-30~70°C (-22~158°F)	-30~70°C (-22~158°F)	
Ambient Humidity		95% RH	95% RH	95% RH	95% RH	
Installation orientation		Coil up ± 90°	Coil up ± 90°	Coil up ± 90°	Coil up ± 15°	
Operating Pressure		0~4.48MPaG (650psig)	0~4.48MPaG (650psig)	0~4.48MPaG (650psig)	0~4.15MPaG (602psig)	
Burst Pressure		22.4MPaG (3,250psig)	22.4MPaG (3,250psig)	22.4MPaG (3,250psig)	12.45MPaG (1,806psig)	
Maximum Operating Pressure Difference (A-->B direction)		3.32MPa (482psid) {φ1.3mm~φ2.2mm} 2.7MPa (392psid) {φ2.4mm}	3.32MPa (482psid)	3.32MPa (482psid) {φ2.4mm~φ2.8mm} 2.26MPa (328psid) {φ3.0mm~φ3.2mm}	2.26MPa (328psid)	
Maximum Operating Pressure Difference (B-->A direction)		2.11MPa (306psid) {φ1.3mm~φ2.0mm} 1.47MPa (213psid) {φ2.2mm~φ2.4mm}	N/A	2.11MPa (306psid) {φ2.4mm~φ2.8mm} 1.47MPa (213psid) {φ3.0mm~φ3.2mm}	N/A	
Flow Direction		Bi-Directional	A-->B Control B-->A Open	Bi-Directional	Uni-directional	
Drive System	Drive Voltage	DC12V or DC24V	DC12V or DC24V	DC12V or DC24V	DC12V or DC24V	
	Power Consumption	6.2W	6.2W	6.2W	10W	
	Stepper Motor Control	1-2 Phase Distribution (Unipolar Drive)				2-2 Phase Distribution (Unipolar Drive)
	Pulse Rate	30~90PPS (Pulses Per Second)				20PPS
	Full Stroke Pulse	500P				250P

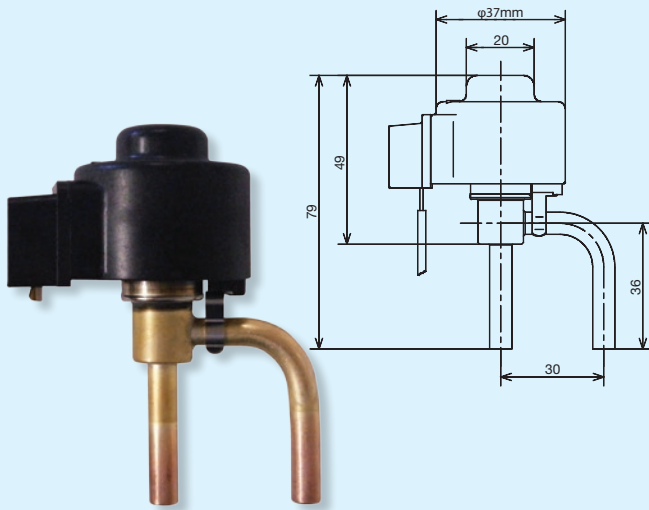
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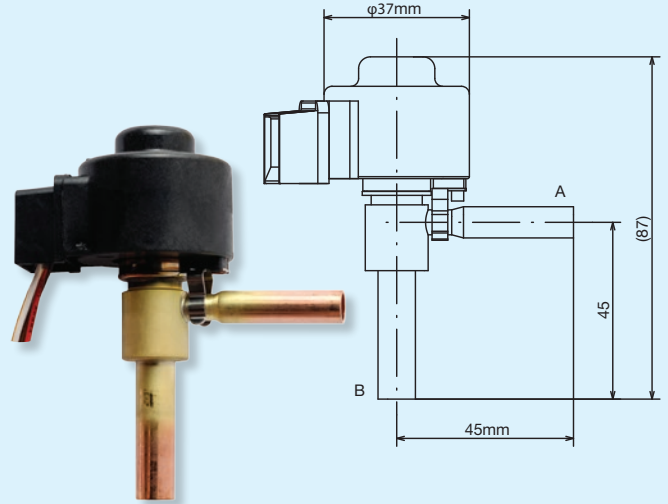
## CAM VALVE

Diameter:  $\varnothing 1.3\text{mm} \sim \varnothing 2.4\text{mm}$



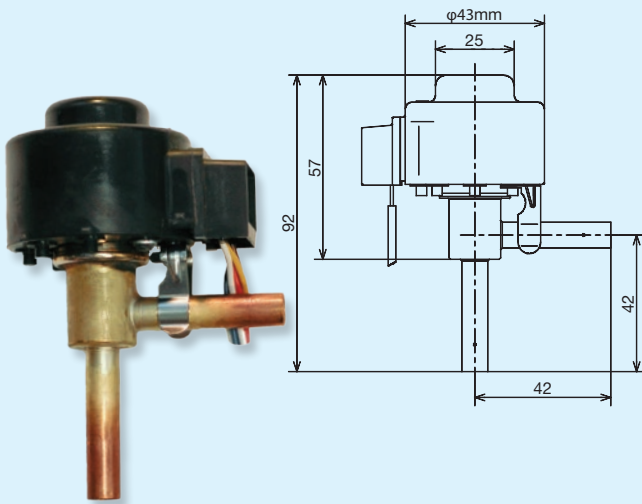
## CVM VALVE

Diameter:  $\varnothing 1.3\text{mm} \sim \varnothing 2.4\text{mm}$



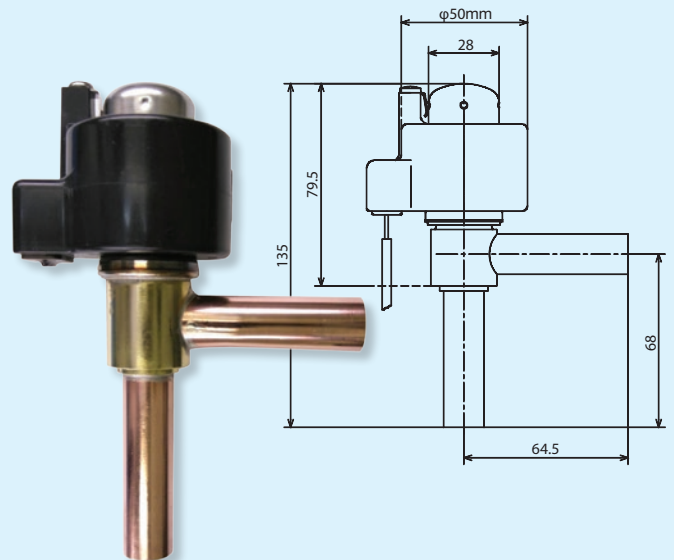
## HAM VALVE

Diameter:  $\varnothing 2.4\text{mm} \sim \varnothing 3.2\text{mm}$



## LFM VALVE

Diameter:  $\varnothing 5.3\text{mm} \sim \varnothing 6.5\text{mm}$



Optional tube arrangements are available for Fujikoki EXVs