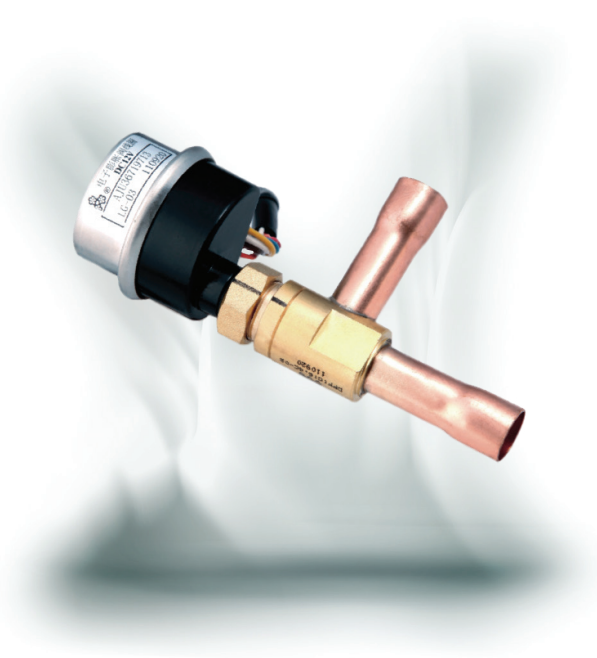




## Electronic Expansion Valve

O series electronic expansion valve are mainly used in air conditioning systems variable refrigerant flow to realize automatic adjustment of refrigerant flow rate and make the air conditioning system work under the best working condition for the purpose of fast cooling, precise temperature control and power saving. These valves can also be used for other controls. These valves are reversible which can automatically control the flow of refrigerant in either heating or cooling mode.



### FEATURES

- HIGH PRECISION: FULL OPEN PULSE 2000
- LONG LIFE
- LOW NOISE
- ENERGY SAVING

### GENERAL SPECIFICATIONS

- Applicable refrigerant: R22, R134A, R404A, R407C, R410A etc.
- Capacity: 1USRT~13.3USRT (R22 Nominal Capacity)
- Applicable medium temperature:  $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$  (electrified rate below 50%)
- Applicable ambient temperature:  $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$  (electrified rate below 50%)
- Relative humidity: below 95% RH
- Installation mode: Coil upwards, central axis of valve rotor within  $\pm 15^{\circ}$  vertical to horizontal surface

### ELECTRICAL PARAMETERS

- Rated voltage: DC12V ( $\pm 10\%$ ), rectangular wave;
- Actuating mode: 4-phase 4-step permanent magnet stepping motor of speed reduction type;
- Excitation mode: 2-2 phase excitation, monopole actuation;
- Excitation rate: 100PPS~250PPS (opening excitation speed  $\leq$  closing excitation speed, the ending excitation mode maintains more than 0.1S);
- Current of coil: 80mA/phase( $20^{\circ}\text{C}$ )
- Resistance of coil:  $150 \pm 15\Omega$ /phase( $20^{\circ}\text{C}$ )
- Insulation grade of coil: E





# SANHUA O SERIES Electronic Expansion Valve

## TECHNICAL PARAMETERS

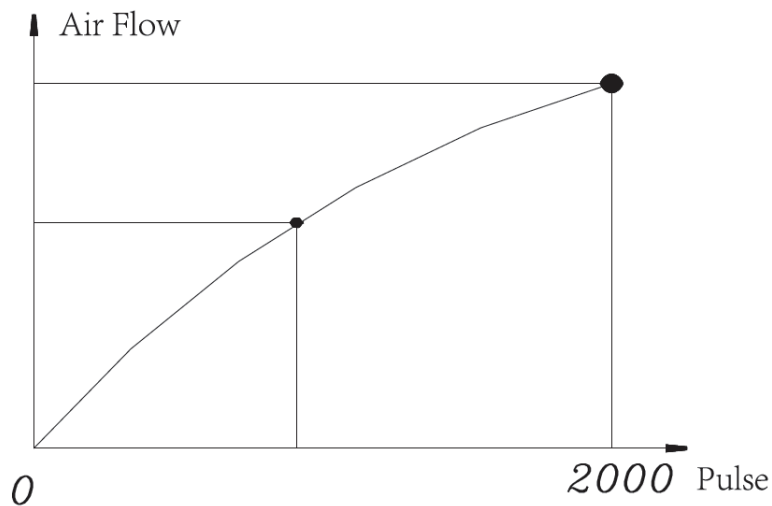
Model	Port mm	R22 Nominal Capacity		Max. Operation Pressure Difference MPa			Internal Leakage ml/min	Reverse Open Valve Pressure Difference MPa		
		kW	US.R.T	R22	R407C	R410A		R22	R407C	R410A
DPF(O)1.3	1.3	5.28	1.5				≤600			
DPF(O)2.0	2.0	8.8	2.5							
DPF(O)2.4	2.4	10.56	3.0				≤1000			
DPF(O)3.2	3.2	14.1	4.0							
DPF(O)3.2	3.2	17.6	5.0	2.26	2.48	3.43		3.0	3.3	4.2
DPF(O)4.0	4.0	21.2	6.0							
DPF(O)5.2	5.2	28.1	8.0							
DPF(O)6.4	6.4	35.2	10.0							
DPF(O)8.0	8.0	47.6	13.3							

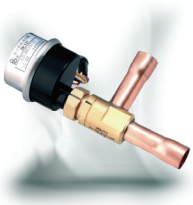
**Note:**

- 1) Nominal working conditions: Condensing temperature: 38°C, vaporing temperature 5°C, Supercooling temperature 0°C, superheat temperature 0°C
- 2) When using other refrigerants, it is need to use a factor to adjust nominal capacity of R22.(R134A --0.75, R407C--1, R410A--1.2)

## STANDARD FLOW CURVE

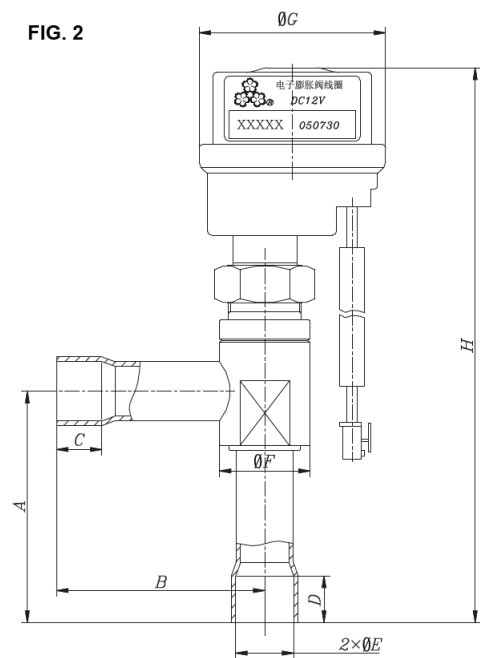
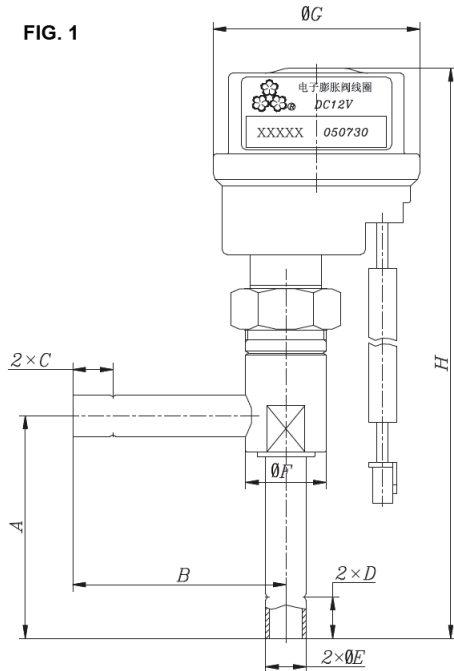
Standard Flow Curve





# SANHUA O SERIES Electronic Expansion Valve

## DIMENSIONS



Model	Dimensions (mm)								Note
	A	B	C	D	E	F	G	H	
DPF(O)1.3	43	42.5	8	8	7.94	16	41.2	110	Fig.1
DPF(O)2.0	43	42.5	8	8	7.94	16	41.2	110	
DPF(O)2.4	43	42.5	8	8	7.94	16	41.2	110	
DPF(O)3.2	43	42.5	8	8	7.94	16	41.2	110	
DPF(O)3.2	50	46	10	10	12.8	20	41.2	119	Fig.2
DPF(O)4.0	50	46	10	10	12.8	20	41.2	119	
DPF(O)5.2	50	46	10	10	12.8	20	41.2	119	
DPF(O)6.4	50	46	10	10	12.8	20	41.2	119	
DPF(O)8.0	50	46	10	10	12.8	20	41.2	119	