

SOLENOID VALVES FOR REFRIGERANT

High Volume OEM Item

Type TEV & VPV



GENERAL DESCRIPTION

- Direct-operated, pilot operated, 2-way, normally closed valve. Normally open type is available.
- For use with non-corrosive refrigerant.
- Compactly designed for use in small appliances produced in quantity such as room air conditioners, dehumidifiers and ice making machines.
- Various piping configuration available.



Type VPV

Type TEV

SPECIFICATIONS

- Fluid temperature: -30 to 120°C
- Ambient temperature: -30 to 50°C

TYPE NUMBER SELECTION

Unit: MPa {kgf/cm²}

Catalog No.	Port Size (mm)	Cv Value	* Nominal Capacity (U.S.R.T.) {kW}				Connection		O.P.D.		Max. Working Pressure	Operation	Wt. (kg)
			R410A	R134a	R404A	R22	Copper Tube O.D.	Style	Min.	Max.			
TEV-S1220D	1.2	0.037	0.2 {0.6}	0.1 {0.5}	0.1 {0.4}	0.2 {0.6}	1/4"	Solder	0	3.6 {36.7}	4.3 {43.8}	Normal Close	0.025
TEV-S1620D	1.6	0.07	0.3 {1.0}	0.3 {1.0}	0.2 {0.7}	0.3 {1.1}							
TEV-S1920D	1.9	0.1	0.4 {1.5}	0.4 {1.5}	0.3 {1.0}	0.5 {1.6}							
VPV-L202D	1.8	0.06	0.3 {1.0}	0.3 {1.0}	0.2 {0.7}	0.3 {1.1}	1/4"	0	2.06 {21}	Normal Open		0.06	
VPV-603D	5.8	0.65	2.8 {9.7}	2.7 {9.6}	1.9 {6.7}	2.9 {10.3}	5/16"	0.005 {0.05}	3.6 {36.7}	Normal Close		0.08	
VPV-803DQ50	7.8	1.5	6.4 {22.4}	6.3 {22.2}	4.4 {15.4}	6.8 {23.8}	3/8"	0.01 {0.1}	2.75 {28}			0.14	
VPV-1204DQ50	11.0	3.0	12.7 {44.8}	12.6 {44.4}	8.8 {30.9}	13.5 {47.6}	1/2"	0.015 {0.15}		0.26			

• O.P.D.: Operating Pressure Differential (by air pressure)

* Nominal capacities are based on ΔP = 0.015MPa, condensing temp. = 38°C and evaporating temp. = 5°C

ELECTRICAL RATING OF SOLENOID COILS

Type	Rated Voltage	Tolerance (%)	Voltampere		Power Consumption (W)	Insulation Class	Wt. (kg)
			Running	Inrush			
TEV	24V. AC 100V. AC 110V. AC 120V. AC 208V. AC	±10	9/7	22/16	4.5/3.5	* Class B Molded	0.1
VPV	220V. AC 230V. AC 240V. AC						

Current (A) = Voltampere / Rated Voltage

* IEC compliance

DIMENSIONS

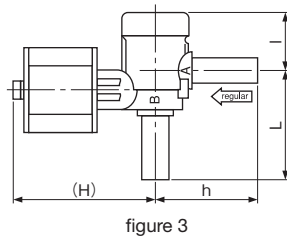
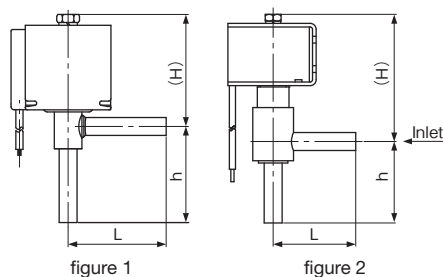


figure 3

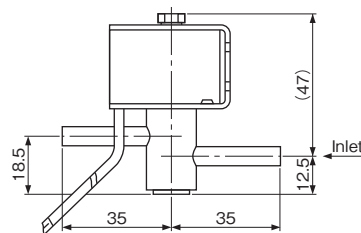


figure 4

Catalog No.	Unit: mm				Form
	L	H	h	l	
TEV-S1220D	35	40	33	-	figure 1
S1620D					
S1920D					
VPV-603D	36.5	55	36	-	figure 2
VPV-803DQ50	41.5	53.5	38.5	22.5	figure 3
VPV-1204DQ50	61.5	57.5	61.5	28.5	
VPV-L202D	-	-	-	-	figure 4

Unit: mm