

SMALL SOLENOID VALVES FOR REFRIGERANT / Type TEV-S, VPV



Type TEV-S



Type VPV-303DQ1, 603D

High Volume OEM Item
 Drawings must be exchanged for purchase.
 Please contact SAGINOMIYA for more details.

Coil sold separately



Type VPV-803DQ50, 1204DQ50



Type VPV-L202D

FEATURE

- Available for applications such as oil return, hot gas defrost, and heat exchanger switching.
- TEV-S type contributes to energy saving and space saving by its low power consumption (4.5kW), small size and light weight (24g).
- VPV has a lineup of three types of joint shapes to fit various piping configurations.
- Standards : Type TEV-S (UL/CSA, CE, UKCA, CQC)
 Type TVPV (UL/CSA, CE, UKCA)
 (Please contact us for details such as approved specifications.)

APPLICATIONS

- Room air conditioners
- Packaged air conditioners
- Heat pump water heaters
- Bottle coolers
- Dehumidifiers
- Ice makers, etc.

COMMON SPECIFICATION

- Max. working pressure : 4.3 MPa
- Fluid Temperature : -30~120°C
- Ambient temperature : -30~50°C

DESCRIPTION OF CATALOG NO.

TEV-S - 12 20 D
 I II III IV

VPV - 8 03 D Q50
 I II III IV V

I	Type
II	Port Size
III	Connection tube O.D.
IV	Connection type
V	Serial number

* Coil is not included with the body.

TYPE NUMBER SELECTION

Catalog No.		Refrigerant	Port Size (mm)	Cv Value	Connection		O.P.D. (MPa)		Operation		* 2				
Type	Model				Style	Connection size	Min.	Max.			Wt. (kg)				
TEV-S	1220D	Various refrigerants * 1	1.2	0.037	Copper tube solder (ODM)	1/4"	0	3.6	Normally Closed	Direct operated	0.025				
	1620D		1.6	0.07											
	1920D		1.9	0.09											
VPV	L202D		1.8	0.06			5/16"	0.005	3.6			Normally Opened	Normally Closed	Pilot operated	0.08
	303DQ1		3.0	0.21											
	603D		5.8	0.65											
	803DQ50		7.8	1.5											
	1204DQ50		11	3.0		3/8"		0.01	2.75						
						1/2"	0.015	0.14							

* 1 R32, R1234yf, R1234Ze, R410A, R134a, R404A, R448A, R449A, R407H, R463A-J (For other refrigerants, please contact us.)

* 2 Valve only (without coil)

Catalog No.		Capacity (kW)										
Type	Model	R32	R1234yf	R1234ze	R410A	R134a	R404A	R448A	R449A	R407H	R463A-J	
TEV-S	1220D	0.8	0.4	0.6	0.6	0.5	0.4	0.5	0.5	0.6	0.5	
	1620D	1.5	0.8	1.1	1.0	1.0	0.7	0.9	1.0	1.1	1.0	
	1920D	2.0	1.0	1.4	1.5	1.5	1.0	1.2	1.2	1.5	1.3	
VPV	L202D	1.3	0.7	0.9	1.0	1.0	0.7	0.8	0.8	1.0	0.9	
	303DQ1	4.6	2.3	3.3	3.1	3.1	2.2	2.8	2.9	3.4	3.0	
	603D	14.1	7.3	10.2	9.7	9.6	6.7	8.7	8.8	10.6	9.4	
	803DQ50	32.5	16.8	23.6	22.4	22.2	15.4	20.1	20.4	24.4	21.6	
	1204DQ50	65.0	33.6	47.2	44.8	44.4	30.9	40.1	40.7	48.9	43.2	

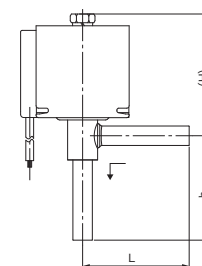
ΔP = 0.015 MPa CT = 38°C ET = 5°C SH = 0K

COIL SELECTION

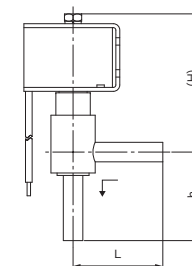
Type	electrical rating	Rated Voltage	Frequency (Hz)	Tolerance (%)	Voltampere (VA)		Power consumption (W)	Insulation Class	Wt. (kg)
					Running	Inrush			
TEV-S	B	24V.AC	50/60	± 10	9/7	22/16	4.5/3.5	Class B Molded *	0.1
	C	100V.AC							
	D	110V.AC							
	E	120V.AC							
	G	200V.AC							
	Q	208V.AC							
	H	220V.AC							
	I	230V.AC							
	J	240V.AC							
	VPV	B							
C		100V.AC							
D		110V.AC							
E		120V.AC							
G		200V.AC							
H		220V.AC							
I		230V.AC							
J		240V.AC							

* Compliant with IEC60085, 60335-2-40.
 • Current (A) = Voltampere / Rated Voltage

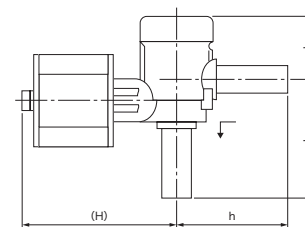
DIMENSIONS



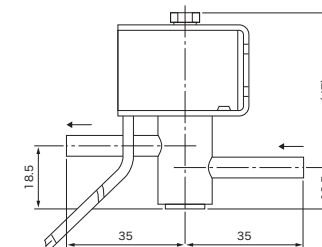
Type TEV



Type VPV-303DQ1, 603



Type VPV-803DQ50, 1204DQ50



Type VPV-L202D

Catalog No.		Unit : mm			
Type	Model	L	H	h	l
TEV-S	1220D	35	40	33	—
	1620D				
	1920D				
VPV	303DQ1	36.5	55	36	—
	603D				
	803DQ50				
	1204DQ50				
	1204DQ50				