

BI-FLOW SOLENOID VALVES / Type BPV



Type BPV

High Volume OEM Item

Drawings must be exchanged for purchase.
Please contact SAGINOMIYA for more details.

Coil sold separately

FEATURE

- Bi-flow control simplifies the refrigeration circuit.
- Also suitable for flow control of heat exchangers in multi-type heat pump air conditioners.
- Standards : CE (Please contact us for details such as approved specifications.)

COMMON SPECIFICATION

- Max. working pressure : 4.2 MPa
- Fluid Temperature : -30 ~ 120°C
- Ambient temperature : -20 ~ 60°C

APPLICATIONS

- Packaged air conditioners
- VRF, etc.

DESCRIPTION OF CATALOG NO.

BPV - 8 03 A D Y
I II III IV V VI

I	Type
II	Port Size
III	Connection tube O.D.
IV	Connection direction
V	Connection type
VI	Pressure class

* Coil is not included with the body.

TYPE NUMBER SELECTION

Catalog No.		Refrigerant	Port Size (mm)	Cv Value	When valve close B to A Cv value * 2 (Bleed flow rate)	Connection		O.P.D. (MPa)		* 3 Wt. (kg)
Type	Model					Style	Connection size	Pressure differential at valve opening	Max.	
BPV	803ADY	Various refrigerants * 1	7.8	1.5	0.01 or less	Copper tube solder (ODM)	3/8"	0.01	2.0	0.16
	1204ADY		11	2.9			1/2"			0.30
	1706ADY		17	6.6		Copper tube solder (ODF)	3/4"			0.015

- * 1 R134a, R404A, R407C, R410A, R448A, R449A, R407H (For other refrigerants, please contact us.)
- * 2 Flow direction B to A flows even when the valve is closed.
- * 3 Valve only (without coil)

TYPE NUMBER SELECTION

Catalog No.		Capacity (kW)						
Type	Model	R410A	R134a	R404A	R448A	R449A	R407H	R463A-J
BPV	803ADY	22.4	22.2	15.4	20.1	20.4	24.4	21.6
	1204ADY	43.3	42.9	29.8	38.8	39.4	47.3	41.7
	1706ADY	98.5	97.7	68.0	98.3	89.6	107.5	95.0

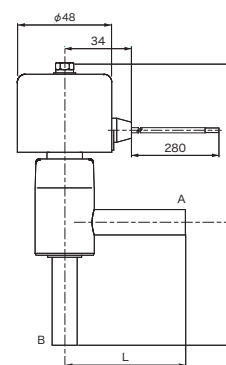
ΔP = 0.015 MPa CT = 38°C ET = 5°C SH = 0K

COIL SELECTION

Valve body catalog No.		Rated Voltage	Frequency (Hz)	Tolerance (%)	Voltampere (VA)		Power consumption (W)	Insulation Class	* 2 Wt. (kg)
Type	Model				Running	Inrush			
BPV	803ADY 1204ADY	100V.AC	50/60	± 10	12/1 0	36/30	6/5	Class B Molded * 1	0.18
		200V.AC							
		220V.AC							
		240V.AC							
	1706ADY	100V.AC	50/60	± 10	17/14	51/42	7.5/6		
		200V.AC							
		220V.AC							
		240V.AC							

- * 1 Compliant with IEC60085, 60335-2-40.
- * 2 For lead wire length of 280mm.
- Current (A) = Voltampere / Rated Voltage

DIMENSIONS



Catalog No.		Unit : mm		
Type	Model	L	H	h
BPV	803ADY	48	76	48
	1204ADY	61	69	69
	1706ADY	91	85	82