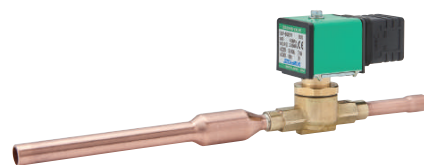


SOLENOID VALVES FOR REFRIGERANT / Type SEV

Type SEV-603BYF
(Lead Wire type)Type SEV-603DYF
(DIN plug)Type SEV-1004DYF
(Lead Wire type)Type SEV-603DYF
(DIN plug (with socket), with Strainer)Click or scan here
for the capacity
table. ⇒URL : https://saginomiya.co.jp/en/auto/pdf/sev_capacity.pdf

Coil sold separately

TYPE NUMBER SELECTION

Catalog No.				Port Size (mm)	Cv Value	Connection		O.P.D. (MPa)		Max. working pressure (MPa)	Strainer with / without	* 2 Wt. (kg)
Type	Model	Fluid	Special application			Style	Connection size	Min.	Max.			
SEV	303BY	F Various refrigerants * 1	—	3	0.25	Flare	3/8"	0	0.007	4.2	with	0.3
	502BY			5	0.51		1/4"					
	603BY			6	0.80		3/8"					
	1004BY			10	1.75		1/2"					
	1205BY			12	2.9		5/8"					
	1506BY			15	4.5		3/4"					
	303DY			3	0.25	Copper tube solder (ODF)	3/8"	0	0.007	2.45 (AC Coil) 1.96 (DC Coil)	without	0.15
	502DY			5	0.53		1/4"					
	603DY			6	0.83		3/8"					
	604DY			6	0.83		1/2"					
	1004DY			10	2.0		1/2"					
	1005DY			10	2.0		1/2"					
	1205DY			12	3.5		5/8"					
	1506DY			15	5.3		3/4"					
	1507DY			15	5.3		7/8"					
	502DY		Q50	5	0.53	Copper tube solder (ODF)	1/4"	0	0.007	4.2	with	0.25
	603DY			6	0.83		3/8"					
	604DY			6	0.83		1/2"					
	604DY			6	0.83		1/2"					
	603DY	A (Air)	—	5	0.53	Copper tube solder (ODF)	1/4"	0	0.007	4.2	without	0.6
	604DY			6	0.83		1/2"					
	1005DY	C (Inert gases)	—	10	2.0	Copper tube solder (ODF)	1/2"	0	0.007	4.2	without	1.0
	1205DY			12	3.5	Copper tube solder (ODF)	5/8"					
	1506DY			15	5.3	Copper tube solder (ODF)	3/4"					
	1507DY			15	5.3	Copper tube solder (ODF)	7/8"					
	502DY	Q300	—	5	0.53	Copper tube solder (ODF)	1/4"	0	0.007	4.2	with	0.25
	603DY			6	0.83		3/8"					
	604DY	Q300	—	6	0.83	Copper tube solder (ODF)	1/2"	0	0.007	4.2	without	0.2
	604DY			6	0.83		1/2"					

* 1 R134a, R404A, R407C, R410A, R448A, R449A, R407H, R463A-J (For other refrigerants, please contact us.)

* 2 Valve only (without coil)

FEATURES

- Versatile valve body and coil lineup enable wider applications.
- Capable of handling various low GWP refrigerants (R448A, R449A, R407H, R463A-J and others)
- Strainer is installed in flare connection models. Solder connection models with strainer (type Q50) are also available for some sizes.
- Coils can be selected from various lineups. It can be used in common regardless of valve body types and connection sizes.
- Standards : CQC, CE, UKCA (Please contact us for details such as approved specifications.)

APPLICATIONS

- Condensing units
- Cooling units
- Chillers
- Dehumidifiers
- Air conditioning systems, etc.

COMMON SPECIFICATIONS

- Max. working pressure : 4.2 MPa
- Fluid Temperature : -40~125°C
- Ambient temperature : -30~50°C
- Normally Closed
- Flare type, Solder type

DESCRIPTION OF CATALOG NO. (BODY) *

SEV - 15 06 B Y F
I II III IV V VI

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

* Coil is not included with the body.
Please specify the catalog number
of coil and purchase it separately.

COIL SELECTION

Description of Coil Catalog No.

SEV - A 1 W 20C
I II III IV

I	Power supply
II	Voltage
III	Coil Style
IV	Cable gland size

• IV is only when the Coil Style is "W".

Power supply / Voltage
A1 : 100V.AC
A2 : 200V.AC
A3 : 110V.AC
A4 : 220V.AC
A7 : 24V.AC
AA : 230V.AC
AB : 240V.AC
AC : 120V.AC
D6 : 12V.DC
D7 : 24V.DC

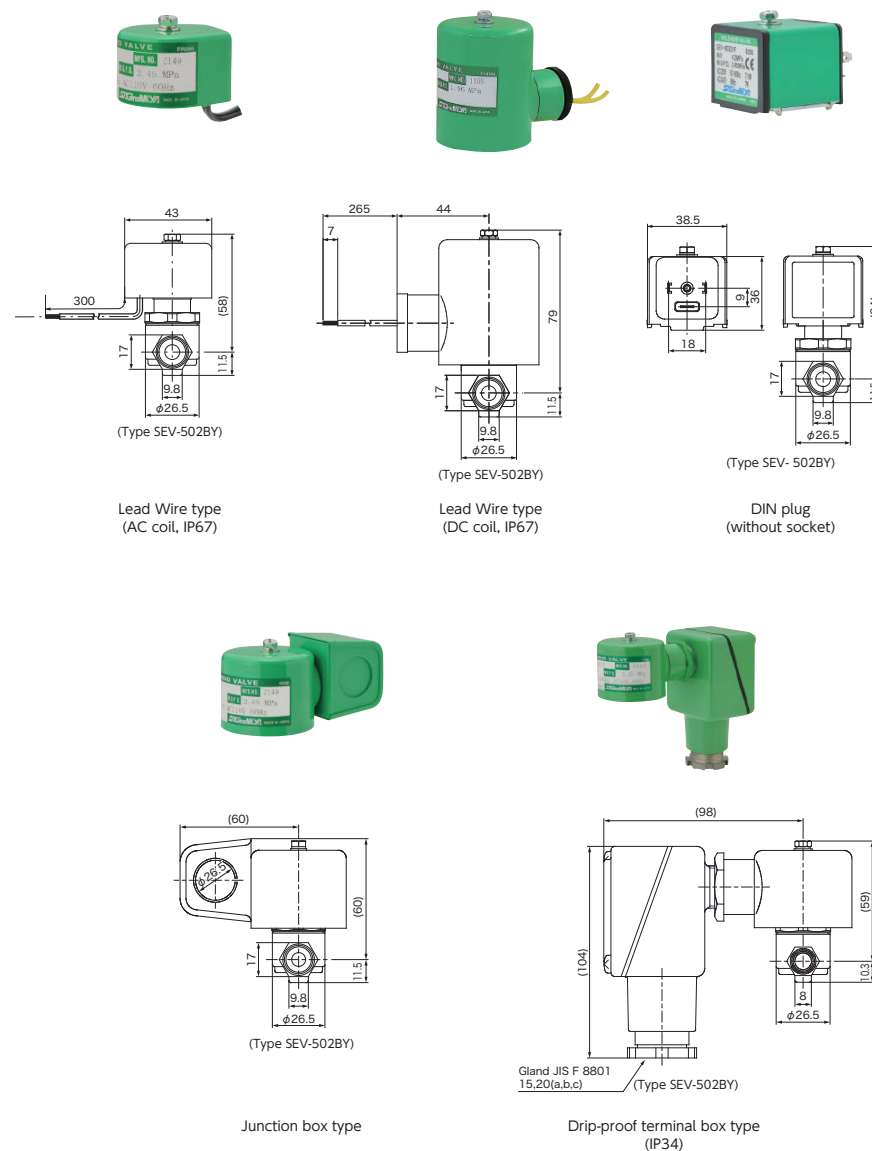
Coil Style
R : Lead Wire type
D : DIN plug (with socket)
E : DIN plug (without socket)
U : Junction box type
W : Drip-proof terminal box type

COIL SELECTION

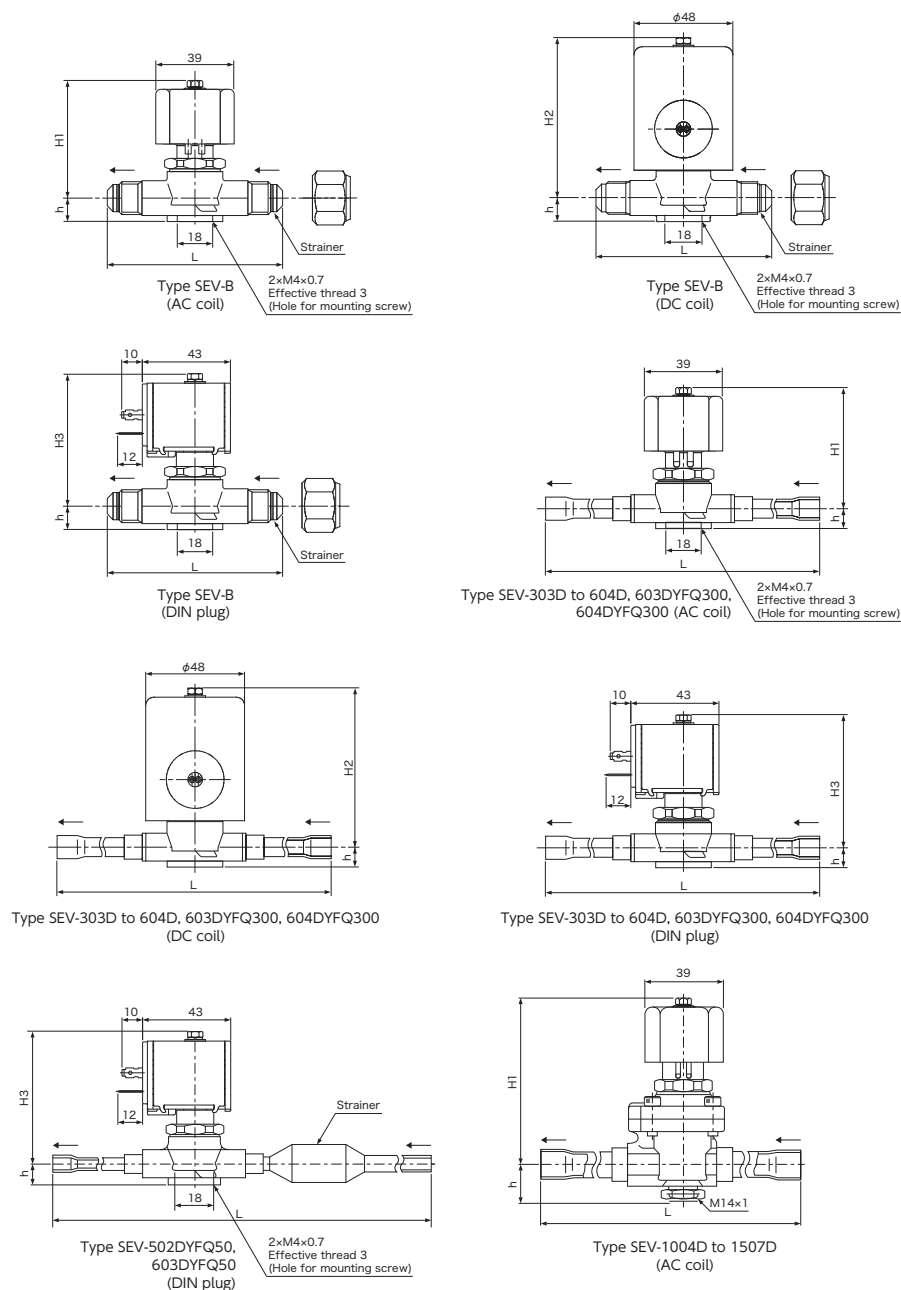
Catalog No.		Coil Style	Coil Wt. (kg)	Rated Voltage	Frequency (Hz)	Tolerance (%)	Voltampere (VA)		Power consumption (W)	Insulation Class						
Type	Model						Running	Inrush								
SEV	A1R	Lead Wire type	0.1	100V. AC	50/60	± 10	15/11	45/33	7/6	Class B Molded						
	A1D	DIN plug (with socket)	0.2													
	A1E	DIN plug (without socket)	0.15													
	A1U	Junction box type	0.2													
	A1W20C	Drip-proof terminal box type	0.4	200V. AC												
	A2R	Lead Wire type	0.1													
	A2D	DIN plug (with socket)	0.2													
	A2E	DIN plug (without socket)	0.15													
	A2U	Junction box type	0.2	110V. AC												
	A2W20C	Drip-proof terminal box type	0.4													
	A3R	Lead Wire type	0.1													
	A3D	DIN plug (with socket)	0.2													
	A3E	DIN plug (without socket)	0.15	220V. AC												
	A3U	Junction box type	0.2													
	A3W20C	Drip-proof terminal box type	0.4													
	A4R	Lead Wire type	0.1													
	A4D	DIN plug (with socket)	0.2	24V. AC												
	A4E	DIN plug (without socket)	0.15													
	A4U	Junction box type	0.2													
	A4W20C	Drip-proof terminal box type	0.4	230V. AC												
	A7R	Lead Wire type	0.1													
	A7D	DIN plug (with socket)	0.2													
	A7E	DIN plug (without socket)	0.15	240V. AC												
	A7U	Junction box type	0.2													
	A7W20C	Drip-proof terminal box type	0.4													
	AAR	Lead Wire type	0.1	120V. AC												
	AAD	DIN plug (with socket)	0.2													
	AAE	DIN plug (without socket)	0.15													
	AAU	Junction box type	0.2	12V. DC												
	AAW20C	Drip-proof terminal box type	0.4													
	ABR	Lead Wire type	0.1													
	ABD	DIN plug (with socket)	0.2	24V. DC												
	ABE	DIN plug (without socket)	0.15													
	ABU	Junction box type	0.2													
	ABW20C	Drip-proof terminal box type	0.4													
	ACR	Lead Wire type	0.1	10V. AC												
	ACU	Junction box type	0.2													
	ACW20C	Drip-proof terminal box type	0.4													
	D6C	Lead Wire type	0.3	12V. DC												
	D6W20C	Drip-proof terminal box type	0.5													
	D7C	Lead Wire type	0.3	24V. DC												
	D7W20C	Drip-proof terminal box type	0.5													

- The catalog numbers of drip-proof terminal box types are for the standard type (gland size 20c). Other gland sizes, 15a, 15b, 15c, 20a, and 20b are also available upon request.
- DIN plug socket : EN 175301-803 / ISO4400 (DIN 43650-A)
- IP Lead Wire type : IP67, DIN plug (with socket) : IP65, Drip-proof terminal box type : IP34
- Current (A) = Voltampere / Rated Voltage
- Drip-proof terminal box type can be used indoors where water drops may fall.

COIL SELECTION



DIMENSIONS



DIMENSIONS

Catalog No.		Unit : mm				
Type	Model	L	H1	H2	H3	h
SEV	303BY	85	58	79	64	11
	502BY					
	603BY					
	1004BY	105	85	106	91	20
	1205BY	115	88	109	94	22
	1506BY	135	95	116	101	25
	303DY	150	58	79	64	10
	502DY					
	603DY					
	604DY					
	1004DY	160	85	106	91	20
	1005DY	168				
	1205DY	180	88	109	94	22
	1506DY	190	95	116	101	25
	1507DY	196				
	502DYFQ50	270				
603DYFQ50						
603DYFQ300	138					
604DYFQ300						

STANDARD ACCESSORY

- Flare Nut (only for flare connection model)
- Mounting bracket (Optional for some model)

OPTIONAL PARTS

- DIN socket for DIN plug coil
 - * Please specify necessity of the parts when ordering

Catalog No.		Unit : mm	
Type	Model		
SEV	303BY		
	502BY		
	603BY		
	303DY		
	502DY		
	603DY		
	604DY		
	502DYFQ50		
	603DYFQ50		
	603DYFQ300		
	604DYFQ300		
SEV	1004BY		
	1004DY		
	1005DY		
	1205BY *		
	1506BY *		
	1205DY *		
SEV	1506DY *		
	1507DY *		

* Available upon request

