

Type SEV SOLENOID VALVES

More Diverse and Wider Applications

Coils with DIN plug are newly added to the SEV solenoid valve lineup for enhancing user's convenience. Widely used in versatile applications from refrigeration to cold storage and general industrial applications.



Type SEV-603BYF
(Lead wire type)



Type SEV-603DYF
(Lead wire type)



Type SEV-603BYF
(DIN plug)



Type SEV-603DYF
(DIN plug)



SEV-603DYF
(DIN plug, with Strainer)

Versatile product lineup

Body: 14types, Connection size: 1/4 to 3/4, Coil: 3 types

Strainer available

Capable of handling low GWP refrigerant

SAGInoMIYA

FEATURE

- Versatile valve body and coil lineup enable wider applications.
- Capable of handling various low GWP refrigerant (R448, R449A and others)
- Strainer is installed in flare connection models. Solder connection models with strainer are also available for some sizes. (type Q50)
- Coil can be used in common, regardless of valve body and connections size.

Applications Condensing units, Cooling units, Chillers, Dehumidifiers, Air Conditioning, Industrial applications

COMMON SPECIFICATIONS

- Max. Working Pressure: 4.2MPa ● Fluid temperature: -40 to 125°C ● Ambient temperature: -30 to 50°C ● Normally closed valve

SPECIFICATIONS

TYPE NUMBER SELECTION

Unit: MPa {kgf/cm²}

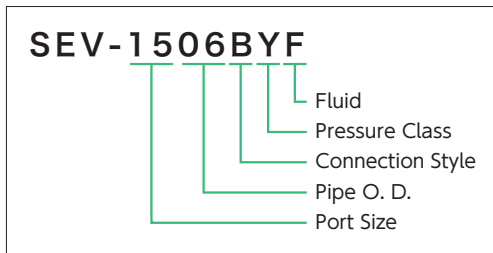
Type	Model No.	Catalog No.		Port Size (mm)	Cv Value	Connection		O.P.D. (MPa)		Strainer	Wt. (kg)	
		Fluid	Special Application			Style	Copper pipe O.D.	Min.	Max.			
SEV	303BY	F (Various refrigerant ^{*1})	-	3	0.25	Flare	3/8"	0	2.45 {25}	With	0.4	
	502BY			5	0.51		1/4"					
	603BY			6	0.80		3/8"					
	1004BY			10	1.75		1/2"					
	1205BY			12	2.9		5/8"					
	1506BY			15	4.5		3/4"					
	303DY			A (Air)	Solder	3	0.25	3/8"	0	1.96 {20}	Without	0.25
	502DY			C (Others)		5	0.53	1/4"				
	603DY			6		0.83	3/8"					
	1004DY			10		2.0	1/2"					
	1205DY	12	3.5	5/8"								
	1506DY	15	5.3	3/4"								
	502DY	F	Q50 ^{*2}	5	0.53	Solder	1/4"	0	With	0.4		
	603DY	F (Various refrigerant ^{*1})	Q300 ^{*3}	6	0.83		3/8"				Without	0.25

*1 R22, R134a, R404A, R407C, R410A, R448A, R449A (For other Refrigerants, please contact us) · Weight includes coil, (in case of AC Coil with lead wire)

*2 With Strainer

*3 Short connection model, Please refer to dimensions for details

Explanation for Catalog No.



ELECTRICAL RATING OF SOLENOID COILS

*Please specify rated voltage and protection structure when ordering.

	Rated Voltage		Voltampere (VA)		Power Consumption (W)	Insulation ^{*3} Class	Coil Style ^{*2}
	Voltage (V)	Tolerance (%)	Running	Inrush			
AC	100	±10	15/11 (50/60Hz)	45/33 (50/60Hz)	7/6 (50/60Hz)	Class B Molded	Lead Wire DIN plug (with socket) ^{*4} DIN plug (without socket) ^{*4}
	200						
	110						
	220						
	24						
	Others ^{*1}						
DC	12	-	-	-	10	-	Lead Wire
	24						

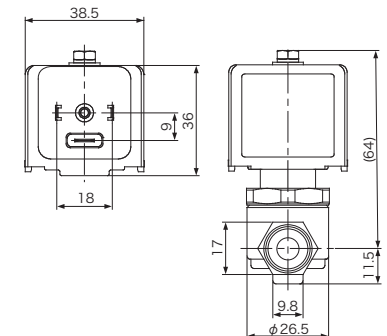
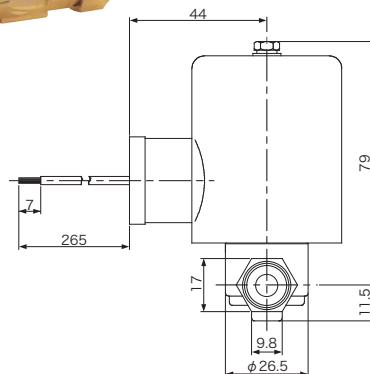
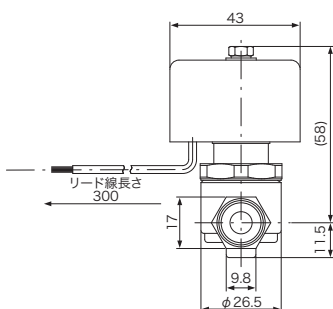
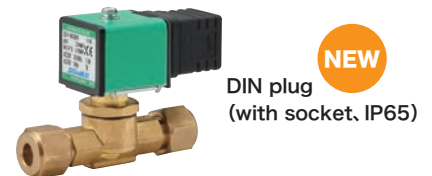
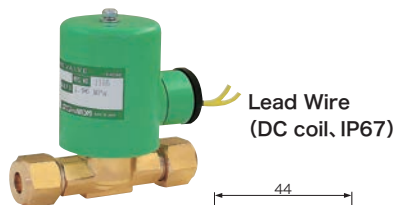
*1 For other Voltages, please contact us.

*2 For other Specifications, please contact us.

*3 IEC compliance

*4 EN 175301-803(DIN 43650)/ISO 4400

Coil Style



Unit:mm

CAPACITY TABLE

Liquid line Capacity (Flare Connection)

CT. 38°C / ET. 5°C / SC. 0°C

Catalog No.	Pressure drop (MPa)	R22				R134a				R404A			
		0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04
SEV-303BY	KW	0.92	1.1	1.3	1.8	0.86	1.1	1.2	1.7	0.60	0.73	0.84	1.2
	U.S.R.T	3.2	4.0	4.6	6.5	3.0	3.7	4.3	6.0	2.1	2.6	3.0	4.2
SEV-502BY	KW	1.9	2.3	2.7	3.8	1.8	2.2	2.5	3.5	1.2	1.5	1.7	2.4
	U.S.R.T	6.6	8.1	9.3	13	6.2	7.6	8.7	12	4.3	5.2	6.1	8.6
SEV-603BY	KW	2.9	3.6	4.2	5.9	2.8	3.4	3.9	5.5	1.9	2.3	2.7	3.8
	U.S.R.T	10	13	15	21	9.7	12	14	19	6.7	8.2	9.5	13
SEV-1004BY	KW	6.4	7.9	9.1	13	6.0	7.4	8.5	12	4.2	5.1	5.9	8.4
	U.S.R.T	23	28	32	45	21	26	30	42	15	18	21	30
SEV-1205BY	KW	11	13	15	21	10	12	14	20	6.9	8.5	9.8	14
	U.S.R.T	38	46	53	75	35	43	50	70	24	30	34	49
SEV-1506BY	KW	17	20	23	33	16	19	22	31	11	13	15	22
	U.S.R.T	58	71	82	117	54	67	77	109	38	46	53	76

Catalog No.	Pressure drop (MPa)	R407C				R410A				R448A				R449A			
		0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04	0.01	0.015	0.02	0.04
SEV-303BY	KW	0.87	1.1	1.2	1.7	0.87	1.1	1.2	1.7	0.80	0.98	1.1	1.6	0.79	0.97	1.1	1.6
	U.S.R.T	3.1	3.7	4.3	6.1	3.0	3.7	4.3	6.1	2.8	3.4	4.0	5.6	2.8	3.4	3.9	5.5
SEV-502BY	KW	1.8	2.2	2.5	3.5	1.8	2.2	2.5	3.5	1.6	2.0	2.3	3.3	1.6	2.0	2.3	3.2
	U.S.R.T	6.2	7.6	8.8	13	6.2	7.6	8.8	12	5.7	7.0	8.1	12	5.7	6.9	8.0	11
SEV-603BY	KW	2.8	3.4	3.9	5.6	2.8	3.4	3.9	5.5	2.6	3.1	3.6	5.1	2.5	3.1	3.6	5.0
	U.S.R.T	9.8	12	14	20	9.7	12	14	20	9.0	11	13	18	8.9	11	13	18
SEV-1004BY	KW	6.1	7.5	8.6	12	6.1	7.4	8.6	12	5.6	6.9	7.9	11	5.5	6.8	7.8	11
	U.S.R.T	21	26	30	43	21	26	30	43	20	24	28	39	19	24	27	39
SEV-1205BY	KW	10	12	14	20	10	12	14	20	9.3	11	13	19	9.1	11	13	18
	U.S.R.T	36	44	50	71	35	44	50	71	33	40	46	65	32	39	46	64
SEV-1506BY	KW	16	19	22	31	16	19	22	31	14	18	20	29	14	17	20	28
	U.S.R.T	55	67	78	110	55	67	78	110	51	62	72	101	50	61	71	100

*Based on condensing temp. 38°C, evaporating temp. -5°C, sub-cooling 0°C. If the conditions are different, the value will be multiplied by the coefficient in the compensation coefficient.

Evaporating temperature compensation coefficient

Evaporating temp. (°C)	Coefficient						
	R22	R134a	R404A	R407C	R410A	R448A	R449A
5	1	1	1	1	1	1	1
0	0.99	0.98	0.98	0.98	0.99	0.98	0.98
-10	0.97	0.94	0.93	0.95	0.97	0.95	0.95
-20	0.94	0.90	0.88	0.92	0.95	0.91	0.91
-30	0.91	0.85	0.83	0.88	0.92	0.87	0.87
-40	0.89	0.81	0.78	0.84	0.89	0.83	0.83

Subcooling compensation coefficient

Subcooling (°C)	Coefficient						
	R22	R134a	R404A	R407C	R410A	R448A	R449A
0	1	1	1	1	1	1	1
10	1.10	1.12	1.17	1.13	1.14	1.14	1.14
20	1.20	1.23	1.34	1.25	1.27	1.27	1.27
30	1.30	1.35	1.51	1.37	1.41	1.40	1.40
40	1.39	1.46	1.67	1.49	1.53	1.53	1.53
50	1.49	1.58	1.83	1.61	1.66	1.65	1.66

Suction line Capacity (Flare Connection)

CT: 38°C, Superheat at valve inlet 0°C

Catalog No.	Pressure drop (MPa)	R22						R134a						R404A						
		5	0	-10	-20	-30	-40	5	0	-10	-20	-30	-40	5	0	-10	-20	-30	-40	
SEV-303BY	0.01	KW	0.44	0.41	0.34	0.28	0.23	0.18	0.34	0.31	0.25	0.20	0.15	0.11	0.36	0.33	0.27	0.22	0.17	0.13
		U.S.R.T	0.13	0.12	0.10	0.08	0.07	0.05	0.10	0.09	0.07	0.06	0.04	0.03	0.10	0.09	0.08	0.06	0.05	0.04
	0.015	KW	0.54	0.50	0.42	0.34	0.27	0.22	0.42	0.38	0.30	0.24	0.18	0.13	0.44	0.40	0.33	0.26	0.21	0.16
		U.S.R.T	0.15	0.14	0.12	0.10	0.08	0.06	0.12	0.11	0.09	0.07	0.05	0.04	0.13	0.11	0.09	0.08	0.06	0.04
	0.02	KW	0.62	0.57	0.48	0.39	0.31	0.25	0.48	0.44	0.35	0.27	0.21	0.15	0.51	0.46	0.38	0.30	0.24	0.18
		U.S.R.T	0.18	0.16	0.14	0.11	0.09	0.07	0.14	0.12	0.10	0.08	0.06	0.04	0.14	0.13	0.11	0.09	0.07	0.05
0.04	KW	0.87	0.80	0.67	0.54	0.43	0.33	0.67	0.60	0.48	0.37	0.27	0.18	0.71	0.65	0.53	0.42	0.33	0.24	
	U.S.R.T	0.25	0.23	0.19	0.15	0.12	0.09	0.19	0.17	0.14	0.11	0.08	0.05	0.20	0.18	0.15	0.12	0.09	0.07	
SEV-502BY	0.01	KW	0.90	0.83	0.70	0.57	0.46	0.36	0.70	0.63	0.51	0.40	0.31	0.23	0.73	0.67	0.55	0.44	0.35	0.27
		U.S.R.T	0.26	0.24	0.20	0.16	0.13	0.10	0.20	0.18	0.14	0.11	0.09	0.06	0.21	0.19	0.16	0.13	0.10	0.08
	0.015	KW	1.1	1.0	0.85	0.70	0.56	0.44	0.86	0.77	0.62	0.49	0.37	0.27	0.90	0.82	0.67	0.54	0.42	0.32
		U.S.R.T	0.31	0.29	0.24	0.20	0.16	0.12	0.24	0.22	0.18	0.14	0.11	0.08	0.26	0.23	0.19	0.15	0.12	0.09
	0.02	KW	1.3	1.2	0.98	0.80	0.64	0.50	0.98	0.89	0.71	0.56	0.42	0.31	1.0	0.94	0.77	0.62	0.49	0.37
		U.S.R.T	0.36	0.33	0.28	0.23	0.18	0.14	0.28	0.25	0.20	0.16	0.12	0.09	0.29	0.27	0.22	0.18	0.14	0.10
0.04	KW	1.8	1.6	1.4	1.1	0.88	0.67	1.4	1.2	0.98	0.75	0.55	0.38	1.5	1.3	1.1	0.86	0.67	0.50	
	U.S.R.T	0.51	0.47	0.39	0.32	0.25	0.19	0.39	0.35	0.28	0.21	0.16	0.11	0.41	0.38	0.31	0.25	0.19	0.14	
SEV-603BY	0.01	KW	1.4	1.3	1.1	0.90	0.72	0.57	1.1	0.99	0.80	0.63	0.48	0.36	1.2	1.1	0.86	0.69	0.55	0.42
		U.S.R.T	0.40	0.37	0.31	0.26	0.21	0.16	0.31	0.28	0.23	0.18	0.14	0.10	0.33	0.30	0.25	0.20	0.16	0.12
	0.015	KW	1.7	1.6	1.3	1.1	0.88	0.69	1.3	1.2	0.97	0.76	0.58	0.43	1.4	1.3	1.1	0.85	0.66	0.51
		U.S.R.T	0.49	0.45	0.38	0.31	0.25	0.20	0.38	0.34	0.28	0.22	0.17	0.12	0.40	0.37	0.30	0.24	0.19	0.14
	0.02	KW	2.0	1.8	1.5	1.3	1.0	0.78	1.5	1.4	1.1	0.87	0.66	0.48	1.6	1.5	1.2	0.97	0.76	0.58
		U.S.R.T	0.57	0.52	0.44	0.36	0.29	0.22	0.44	0.40	0.32	0.25	0.19	0.14	0.46	0.42	0.34	0.28	0.22	0.16
0.04	KW	2.8	2.6	2.1	1.7	1.4	1.0	2.2	1.9	1.5	1.2	0.87	0.59	2.3	2.1	1.7	1.4	1.0	0.78	
	U.S.R.T	0.79	0.73	0.61	0.49	0.39	0.30	0.61	0.55	0.44	0.34	0.25	0.17	0.65	0.59	0.48	0.38	0.30	0.22	
SEV-1004BY	0.01	KW	3.1	2.8	2.4	2.0	1.6	1.2	2.4	2.2	1.7	1.4	1.1	0.78	2.5	2.3	1.9	1.5	1.2	0.91
		U.S.R.T	0.88	0.81	0.68	0.56	0.45	0.35	0.68	0.62	0.50	0.39	0.30	0.22	0.72	0.65	0.54	0.43	0.34	0.26
	0.015	KW	3.8	3.5	2.9	2.4	1.9	1.5	2.9	2.6	2.1	1.7	1.3	0.93	3.1	2.8	2.3	1.9	1.5	1.1
		U.S.R.T	1.1	0.99	0.83	0.68	0.55	0.43	0.83	0.75	0.61	0.48	0.36	0.27	0.88	0.80	0.66	0.53	0.41	0.31
	0.02	KW	4.4	4.0	3.4	2.8	2.2	1.7	3.4	3.0	2.4	1.9	1.4	1.0	3.6	3.2	2.7	2.1	1.7	1.3
		U.S.R.T	1.2	1.1	0.95	0.78	0.63	0.49	0.96	0.87	0.69	0.54	0.41	0.30	1.0	0.92	0.75	0.61	0.47	0.36
0.04	KW	6.1	5.6	4.7	3.8	3.0	2.3	4.7	4.2	3.4	2.6	1.9	1.3	5.0	4.5	3.7	3.0	2.3	1.7	
	U.S.R.T	1.7	1.6	1.3	1.1	0.86	0.65	1.3	1.2	0.96	0.74	0.54	0.37	1.4	1.3	1.1	0.84	0.65	0.49	
SEV-1205BY	0.01	KW	5.1	4.7	4.0	3.3	2.6	2.1	4.0	3.6	2.9	2.3	1.8	1.3	4.2	3.8	3.1	2.5	2.0	1.5
		U.S.R.T	1.5	1.3	1.1	0.93	0.75	0.59	1.1	1.0	0.82	0.65	0.50	0.37	1.2	1.1	0.89	0.72	0.56	0.43
	0.015	KW	6.3	5.8	4.8	4.0	3.2	2.5	4.9	4.4	3.5	2.8	2.1	1.5	5.1	4.7	3.8	3.1	2.4	1.8
		U.S.R.T	1.8	1.6	1.4	1.1	0.91	0.71	1.4	1.3	1.0	0.79	0.60	0.44	1.5	1.3	1.1	0.87	0.68	0.52
	0.02	KW	7.2	6.6	5.6	4.6	3.7	2.8	5.6	5.0	4.1	3.2	2.4	1.7	5.9	5.4	4.4	3.5	2.8	2.1
		U.S.R.T	2.1	1.9	1.6	1.3	1.0	0.81	1.6	1.4	1.2	0.90	0.68	0.49	1.7	1.5	1.3	1.0	0.78	0.60
0.04	KW	10	9.3	7.7	6.3	5.0	3.8	7.8	7.0	5.6	4.3	3.2	2.1	8.3	7.5	6.1	4.9	3.8	2.8	
	U.S.R.T	2.9	2.6	2.2	1.8	1.4	1.1	2.2	2.0	1.6	1.2	0.90	0.61	2.4	2.1	1.8	1.4	1.1	0.81	
SEV-1506BY	0.01	KW	8.0	7.3	6.1	5.1	4.1	3.2	6.2	5.6	4.5	3.5	2.7	2.0	6.5	5.9	4.9	3.9	3.1	2.3
		U.S.R.T	2.3	2.1	1.8	1.4	1.2	0.91	1.8	1.6	1.3	1.0	0.77	0.57	1.8	1.7	1.4	1.1	0.87	0.67
	0.015	KW	9.7	9.0	7.5	6.2	5.0	3.9	7.5	6.8	5.5	4.3	3.3	2.4	7.9	7.2	5.9	4.8	3.7	2.8
		U.S.R.T	2.8	2.6	2.1	1.8	1.4	1.1	2.2	1.9	1.6	1.2	0.93	0.68	2.3	2.1	1.7	1.4	1.1	0.81
	0.02	KW	11	10	8.6	7.1	5.7	4.4	8.7	7.8	6.3	4.9	3.7	2.7	9.1	8.3	6.8	5.5	4.3	3.3
		U.S.R.T	3.2	2.9	2.5	2.0	1.6	1.3	2.5	2.2	1.8	1.4	1.1	0.77	2.6	2.4	1.9	1.6	1.2	0.92
0.04	KW	16	14	12	9.8	7.8	5.9	12	11	8.6	6.7	4.9	3.3	13	12	9.5	7.6	5.9	4.4	
	U.S.R.T	4.5	4.1	3.4	2.8	2.2	1.7	3.4	3.1	2.5	1.9	1.4	0.94	3.7	3.3	2.7	2.2	1.7	1.3	

Catalog No.	Pressure drop (MPa)	R407C						R410A						R448A						R449A						
		5	0	-10	-20	-30	-40	5	0	-10	-20	-30	-40	5	0	-10	-20	-30	-40	5	0	-10	-20	-30	-40	
SEV-303BY	0.01	KW	0.41	0.38	0.31	0.25	0.19	0.15	0.52	0.48	0.40	0.35	0.33	0.27	0.41	0.37	0.31	0.25	0.19	0.15	0.41	0.37	0.30	0.24	0.19	0.15
		U.S.R.T	0.12	0.11	0.09	0.07	0.06	0.04	0.15	0.14	0.11	0.10	0.09	0.08	0.12	0.11	0.09	0.07	0.06	0.04	0.12	0.11	0.09	0.07	0.05	0.04
	0.015	KW	0.51	0.46	0.38	0.30	0.23	0.18	0.63	0.58	0.49	0.42	0.41	0.33	0.50	0.46	0.37	0.30	0.24	0.18	0.50	0.45	0.37	0.30	0.23	0.18
		U.S.R.T	0.14	0.13	0.11	0.09	0.07	0.05	0.18	0.17	0.14	0.12	0.12	0.09	0.14	0.13	0.11	0.09	0.07	0.05	0.14	0.13	0.11	0.08	0.07	0.05
	0.02	KW	0.58	0.53	0.43	0.35	0.27	0.20	0.73	0.67	0.57	0.49	0.47	0.38	0.58	0.53	0.43	0.35	0.27	0.20	0.57	0.52	0.43	0.34	0.27	0.20
		U.S.R.T	0.17	0.15	0.12	0.10	0.08	0.06	0.21	0.19	0.16	0.14	0.13	0.11	0.16	0.15	0.12	0.10	0.08	0.06	0.16	0.15	0.12	0.10	0.08	0.06
0.04	KW	0.82	0.74	0.60	0.48	0.36	0.27	1.0	0.94	0.79	0.68	0.65	0.53	0.81	0.74	0.60	0.48	0.37	0.27	0.80	0.73	0.60	0.47	0.37	0.27	
	U.S.R.T	0.23	0.21	0.17	0.14	0.10	0.08	0.29	0.27	0.23	0.19	0.19	0.15	0.23	0.21	0.17	0.14	0.11	0.08	0.23	0.21	0.17	0.13	0.10	0.08	
SEV-502BY	0.01	KW	0.84	0.77	0.63	0.50	0.40	0.30	1.1	0.97	0.82	0.71	0.68	0.55	0.83	0.76	0.63	0.50	0.40	0.30	0.83	0.76	0.62	0.50	0.39	0.30
		U.S.R.T	0.24	0.22	0.18	0.14	0.11	0.09	0.30	0.28	0.23	0.20	0.19	0.16	0.24	0.22	0.18	0.14	0.11	0.09	0.24	0.21	0.18	0.14	0.11	0.09
	0.015	KW	1.0	0.94	0.77	0.61	0.48	0.36	1.3	1.2	1.0	0.86	0.83	0.67	1.0	0.93	0.76	0.61	0.48	0.37	1.0	0.92	0.76	0.61	0.48	0.36
		U.S.R.T	0.29	0.27	0.22	0.17	0.14	0.10	0.37	0.34	0.29	0.25	0.24	0.19	0.29	0.26	0.22	0.17	0.14	0.10	0.29	0.26	0.22	0.17	0.14	0.10
	0.02	KW	1.2	1.1	0.88	0.71	0.55	0.41	1.5	1.4	1.2	0.99	0.96	0.77	1.2	1.1	0.88	0.71	0.55	0.42	1.2	1.1	0.87	0.70	0.55	

CAPACITY TABLE

Suction line Capacity (Flare Connection)

CT. 38°C, Superheat at valve inlet 0°C

Catalog No.	Pressure drop (MPa)	R407C						R410A						R448A						R449A						
		5	0	-10	-20	-30	-40	5	0	-10	-20	-30	-40	5	0	-10	-20	-30	-40	5	0	-10	-20	-30	-40	
SEV-1004BY	0.01	kW	2.9	2.6	2.2	1.7	1.4	1.0	3.6	3.3	2.8	2.4	2.3	1.9	2.9	2.6	2.1	1.7	1.4	1.0	2.8	2.6	2.1	1.7	1.3	1.0
		U.S.R.T	0.82	0.75	0.61	0.49	0.39	0.29	1.0	0.95	0.80	0.69	0.66	0.54	0.81	0.74	0.61	0.49	0.39	0.30	0.81	0.74	0.61	0.49	0.38	0.29
	0.015	kW	3.5	3.2	2.6	2.1	1.6	1.2	4.4	4.1	3.4	3.0	2.8	2.3	3.5	3.2	2.6	2.1	1.7	1.3	3.5	3.2	2.6	2.1	1.6	1.2
		U.S.R.T	1.0	0.92	0.75	0.60	0.47	0.35	1.3	1.2	0.98	0.84	0.81	0.66	1.0	0.91	0.75	0.60	0.47	0.36	0.99	0.90	0.74	0.59	0.47	0.35
	0.02	kW	4.1	3.7	3.0	2.4	1.9	1.4	5.1	4.7	4.0	3.4	3.3	2.7	4.0	3.7	3.0	2.4	1.9	1.4	4.0	3.6	3.0	2.4	1.9	1.4
		U.S.R.T	1.2	1.1	0.86	0.69	0.53	0.40	1.5	1.3	1.1	0.97	0.93	0.75	1.1	1.0	0.86	0.69	0.54	0.41	1.1	1.0	0.85	0.68	0.53	0.40
	0.04	kW	5.7	5.2	4.2	3.3	2.6	1.9	7.2	6.6	5.6	4.8	4.6	3.7	5.7	5.2	4.2	3.4	2.6	1.9	5.6	5.1	4.2	3.3	2.6	1.9
		U.S.R.T	1.6	1.5	1.2	0.95	0.73	0.53	2.0	1.9	1.6	1.4	1.3	1.1	1.6	1.5	1.2	0.95	0.74	0.54	1.6	1.5	1.2	0.94	0.73	0.54
SEV-1205BY	0.01	kW	4.8	4.4	3.6	2.9	2.2	1.7	6.0	5.5	4.7	4.0	3.9	3.1	4.7	4.3	3.6	2.9	2.3	1.7	4.7	4.3	3.5	2.8	2.2	1.7
		U.S.R.T	1.4	1.2	1.0	0.82	0.64	0.49	1.7	1.6	1.3	1.1	1.1	0.89	1.4	1.2	1.0	0.82	0.64	0.49	1.3	1.2	1.0	0.81	0.64	0.49
	0.015	kW	5.9	5.6	4.4	3.5	2.7	2.1	7.3	6.8	5.7	4.9	4.7	3.8	5.8	5.3	4.3	3.5	2.7	2.1	5.8	5.2	4.3	3.5	2.7	2.1
		U.S.R.T	1.7	1.5	1.2	0.99	0.78	0.59	2.1	1.9	1.6	1.4	1.3	1.1	1.7	1.5	1.2	0.99	0.78	0.59	1.6	1.5	1.2	0.98	0.77	0.59
	0.02	kW	6.8	6.2	5.0	4.0	3.1	2.3	8.4	7.8	6.6	5.7	5.4	4.4	6.7	6.1	5.0	4.0	3.1	2.4	6.6	6.0	5.0	4.0	3.1	2.4
		U.S.R.T	1.9	1.8	1.4	1.1	0.89	0.66	2.4	2.2	1.9	1.6	1.6	1.3	1.9	1.7	1.4	1.1	0.89	0.68	1.9	1.7	1.4	1.1	0.88	0.67
	0.04	kW	9.5	8.6	7.0	5.5	4.2	3.1	12	11	9.2	7.9	7.6	6.1	9.4	8.5	7.0	5.6	4.3	3.2	9.3	8.5	6.9	5.5	4.2	3.1
		U.S.R.T	2.7	2.5	2.0	1.6	1.2	0.88	3.4	3.1	2.6	2.3	2.2	1.7	2.7	2.4	2.0	1.6	1.2	0.90	2.6	2.4	2.0	1.6	1.2	0.89
SEV-1506BY	0.01	kW	7.4	6.8	5.6	4.5	3.5	2.6	9.3	8.6	7.2	6.2	6.0	4.9	7.4	6.7	5.5	4.4	3.5	2.7	7.3	6.7	5.5	4.4	3.5	2.7
		U.S.R.T	2.1	1.9	1.6	1.3	0.99	0.75	2.6	2.4	2.1	1.8	1.7	1.4	2.1	1.9	1.6	1.3	1.0	0.76	2.1	1.9	1.6	1.3	0.99	0.75
	0.015	kW	9.1	8.3	6.8	5.4	4.2	3.2	11	11	8.9	7.6	7.3	5.9	9.0	8.2	6.7	5.4	4.3	3.2	8.9	8.1	6.7	5.4	4.2	3.2
		U.S.R.T	2.6	2.4	1.9	1.5	1.2	0.91	3.2	3.0	2.5	2.2	2.1	1.7	2.6	2.3	1.9	1.5	1.2	0.92	2.5	2.3	1.9	1.5	1.2	0.91
	0.02	kW	11	9.5	7.8	6.2	4.8	3.6	13	12	10	8.8	8.4	6.8	10	9.5	7.8	6.2	4.9	3.7	10	9.4	7.7	6.2	4.8	3.7
		U.S.R.T	3.0	2.7	2.2	1.8	1.4	1.0	3.7	3.4	2.9	2.5	2.4	1.9	3.0	2.7	2.2	1.8	1.4	1.0	2.9	2.7	2.2	1.8	1.4	1.0
	0.04	kW	15	13	11	8.6	6.6	4.8	18	17	14	12	12	9.5	15	13	11	8.6	6.7	4.9	14	13	11	8.5	6.6	4.9
		U.S.R.T	4.2	3.8	3.1	2.4	1.9	1.4	5.2	4.8	4.1	3.5	3.4	2.7	4.1	3.8	3.1	2.4	1.9	1.4	4.1	3.7	3.0	2.4	1.9	1.4

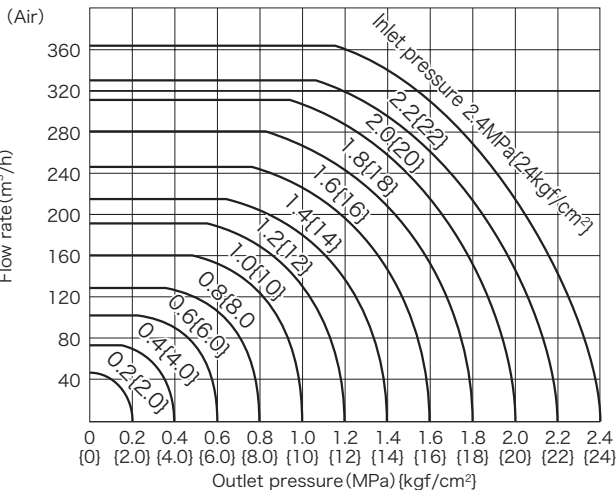
FLOW RATE (Flare Connection) Hot Gas Defrost line

CT. 38°C, hot Gas temperature at valve inlet 50°C

Catalog No.	Hot Gas flow rate (kg/h)											
	R22				R134a				R404A			
Pressure drop (MPa)	0.05	0.1	0.15	0.3	0.05	0.1	0.15	0.3	0.05	0.1	0.15	0.3
SEV-303BY	33	46	55	76	29	40	48	65	38	53	64	89
SEV-502BY	66	93	113	156	58	81	98	133	77	108	131	181
SEV-603BY	104	146	177	244	92	128	154	209	120	169	206	284
SEV-1004BY	228	320	388	534	200	279	337	457	264	370	450	621
SEV-1205BY	378	530	643	884	332	463	559	757	437	613	745	1030
SEV-1506BY	586	822	998	1372	515	718	868	1174	678	951	1156	1598

Catalog No.	Hot Gas flow rate (kg/h)															
	R407C				R410A				R448A				R449A			
Pressure drop (MPa)	0.05	0.1	0.15	0.3	0.05	0.1	0.15	0.3	0.05	0.1	0.15	0.3	0.05	0.1	0.15	0.3
SEV-303BY	33	46	55	76	38	53	64	89	34	47	58	79	34	48	58	80
SEV-502BY	66	93	113	155	77	108	131	182	72	101	122	168	69	97	118	163
SEV-603BY	104	146	177	243	120	169	206	286	112	157	191	264	109	153	185	256
SEV-1004BY	228	319	387	533	263	370	450	626	270	379	461	635	238	334	406	559
SEV-1205BY	377	529	642	883	436	613	746	1037	473	664	806	1111	394	553	672	926
SEV-1506BY	585	820	996	1370	676	951	1158	1609	717	1005	1221	1683	612	858	1043	1437

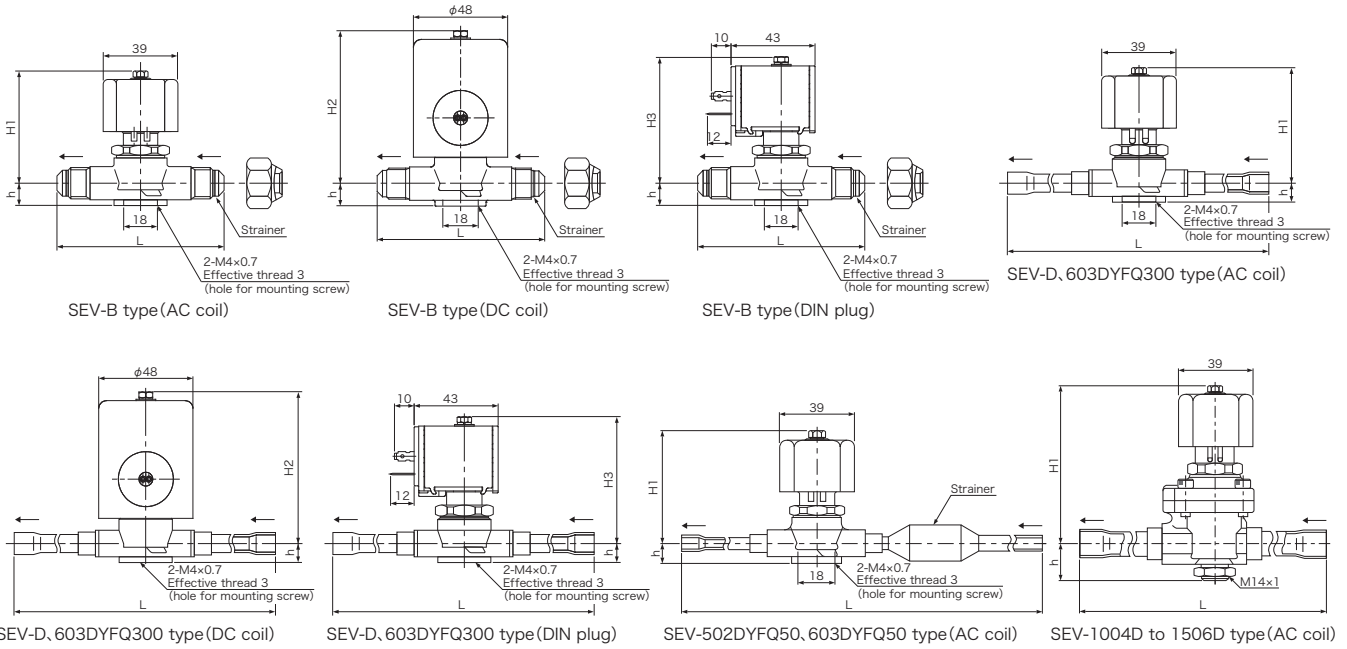
FLOW RATE (Flare Connection)



Port size correction factors for air flow rate

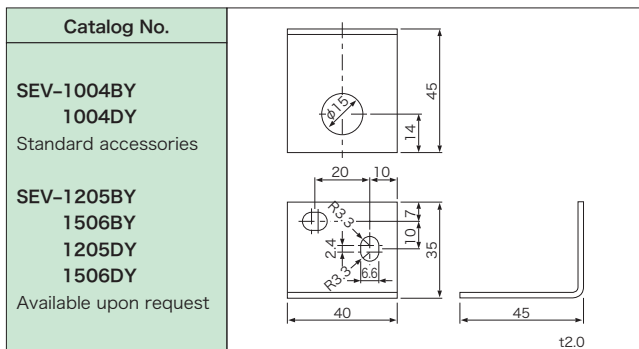
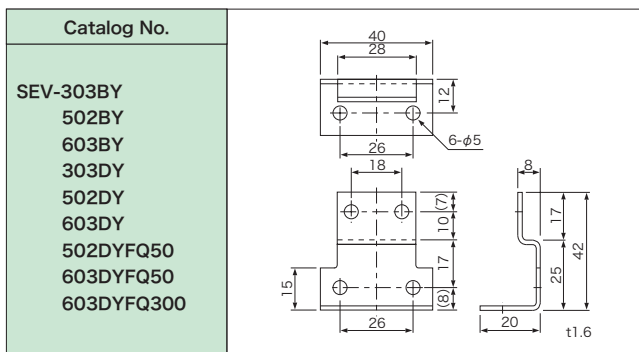
Port Size	Coefficient
3	0.25
5	0.51
6	0.8
10	1.75
12	2.9
15	4.5

DIMENSIONS



Accessory

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

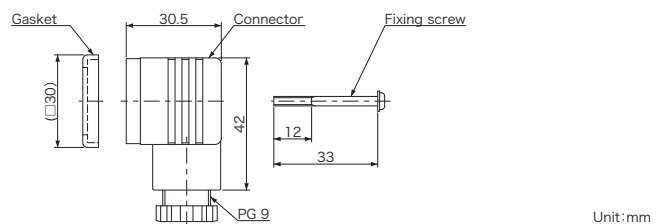


Dimension table

Catalog No.	Dimension (mm)				
	L	H1	H2	H3	h
303BY	85	58	79	64	11.5
502BY					
603BY					
1004BY	105	85	106	91	20.5
1205BY	115	88	109	94	22
1506BY	135	95	116	101	25
303DY	150	58	79	64	10.3
502DY					
603DY					
1004DY	160	85	106	91	20.5
1205DY	180	88	109	94	22
1506DY	190	95	116	101	25
502DYFQ50	270	58	79	63	10.3
603DYFQ50					
603DYFQ300					

OPTIONAL PARTS (DIN socket for DIN plug coil)

*Please specify necessity of the parts when ordering.



NOTES FOR SAFETY

Failure to read and follow all instruction carefully before installing or operating the product could cause personal injury and/or property damage.

Specifications are subject to change without notice.

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