

CO₂ REFRIGERANT APPLICATIONS

High Volume OEM Item

Type CCB, HSK, HPV, UKV-J & JKV

SAGInoMIYA

GENERAL DESCRIPTION

- Used for CO₂ refrigerant applications.
- Available for extreme high pressure.
- Application: Bottle cooler, display case, heat pump water heaters, vending machine



Type CCB



Type HSK



Type HPV



Type UKV-J

● PRESSURE CONTROL for High Pressure [Type CCB]

SPECIFICATIONS

Unit: MPa {kgf/cm²}

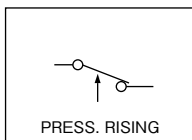
Catalog No.	Setting		Max. Pressure	Contact Function	Pressure Connection	Terminal Construction	Application	Wt. (kg)
	on	off						
CCB- * * * *	10 {100}	15 {150}	15 {150}	SPST (High Cut)	1/4" Solder	Open	High Pressure Cut Out	0.07

- Allowable fluid temperature: -30 to 100 °C
- Enclosure: IP20 (IP66 model: available upon request)

ELECTRICAL RATINGS

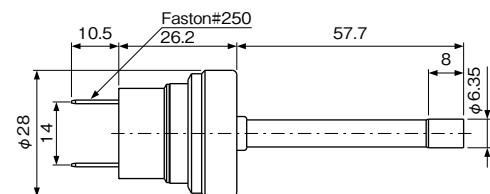
Category of Ratings			T Rating		M Rating	
Rated Amps. (A)	Rated Voltage (V)	Power Factor (cos φ)	24V. DC	12V. DC	120V. AC	240V. AC
	Non-Inductive Current	1	0.01 to 0.05		1 to 6	
Inductive Current	Full Load	0.75	—	—	—	—
	Locked Rotor	0.45				

CONTACT FUNCTION



DIMENSIONS

Type CCB



Unit: mm

● PRESSURE SENSOR for High Pressure [Type HSK]

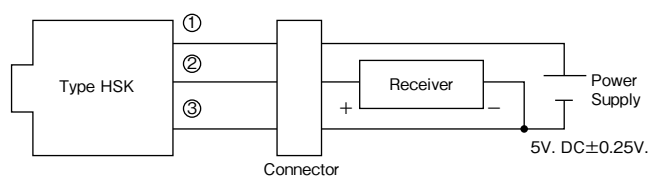
SPECIFICATIONS

Unit: MPa {kgf/cm²}

Catalog No.	Pressure Range	Supply Voltage	Output	Accuracy	Current Consumption	Load Resistance	Airtight Pressure	Pressure Connection	Wt. (kg)
HSK-BC150D- * * *	{0 to 150} 0 to 15	5V. DC±0.25V	0.5 to 4.5V. DC	±2.5% F.S.	Max. 10mA	Min. 10kΩ	15 {150}	φ6 Solder	0.07

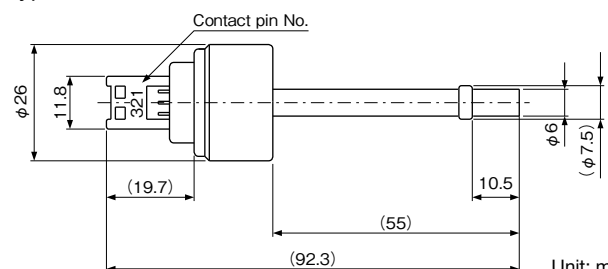
- Allowable fluid temperature: -30 to 120 °C
- Enclosure: IP66
- Ambient temperature: -30 to 100 °C

WIRING



DIMENSIONS

Type HSK



Unit: mm

● SOLENOID VALVE for High Pressure [Type HPV]

TYPE NUMBER SELECTION (SPECIFICATIONS)

Unit: MPa {kgf/cm²}

Catalog No.	Port Size (mm)	Cv Value	Connection		O.P.D.		Max. Working Pressure	Operation	Wt. (kg)
			Copper Tube O.D.	Style	Min.	Max.			
HPV-102D	1.0	0.028	1/4"	Solder	0	10.0 {100}	13.0 {130}	Normal close	0.05
HPV-122D	1.2	0.038			0		13.8 {138}		0.09
HPV-402D	4.0	0.32	1/4"		0		14.0 {140}		0.09
HPV-825DS	7.8	0.54	5/16"		0.1{1}		15.0 {150}		0.13

- O.P.D.: Operating Pressure Differential (by air pressure)
- Ambient temperature: -20 to 50 °C
- Allowable fluid temperature: -30 to 120 °C

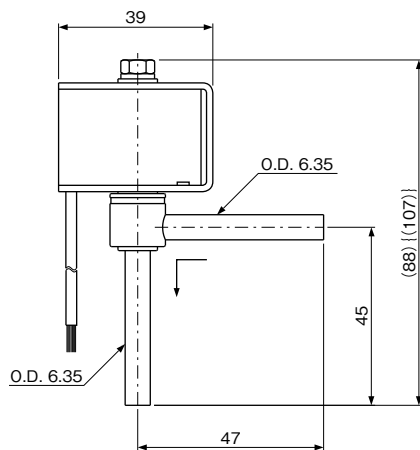
ELECTRICAL RATING OF SOLENOID COILS

Valve Type	Rated Voltage		Tolerance (%)	Voltampere		Power Consumption (W)	Insulation Class	Wt. (kg)
				Running	Inrush			
HPV-102D	100V. AC	50/60Hz	± 10	11/8	32/27	6/4.5	* Class B Molded	0.13
HPV-122D	200V. AC			16/13	52/38	9/8		0.16
HPV-402D	200V. AC			10/8	32/26	5.5/4.5		0.16
HPV-825DS				14/11	42/33	7/6		0.20

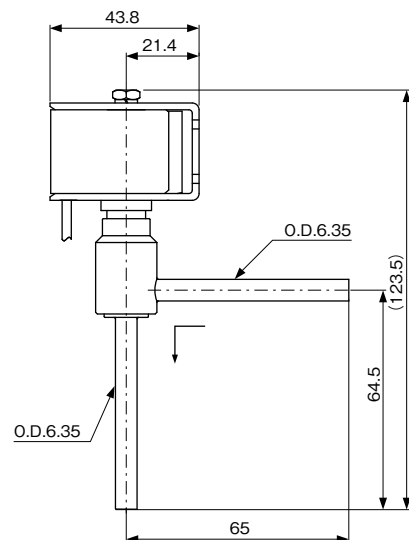
* IEC compliance

DIMENSIONS

Type HPV-102D {HPV-122D}

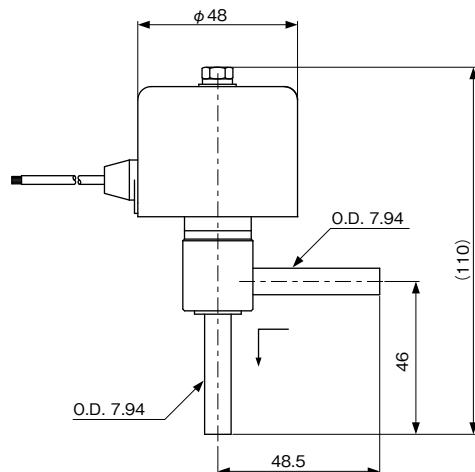


Type HPV-402D



Please contact us if other connection are required.

Type HPV-825DS



Unit: mm