

ELECTRONIC EXPANSION VALVES FOR ULTRA LOW TEMPERATURES / Type GKV



Type GKV

Scan here for the capacity chart. ⇒



URL : https://saginomiya.co.jp/en/auto/pdf/gkv_capacity.pdf

FEATURES

- Can operate down to -70°C.
- Compatible with type YNE EEV controllers (Pages 35 to 38).
- Can be used together with liquid feed solenoid valves.

APPLICATIONS

- Freezers
- Cold storage
- Display cases, etc.

COMMON SPECIFICATIONS

- Max. working pressure : 4.2 MPa
- Fluid temperature : -70 to 60°C
(It should be 50% or less on energizing ratio.)
- Ambient temperature : -70 to 60°C
(It should be 50% or less on energizing ratio.)
- Ambient humidity : 95%RH or less
- Flow direction : B → A (Single direction)
- Excitation method : 1-2 phase, Uni-polar

DESCRIPTION OF CATALOG NO.

GKV - 18 B S
I II III IV

I	Type
II	Port size
III	Connection type
IV	Coil style

TYPE NUMBER SELECTION

Catalog No.	* 1 Refrigerant	Port size φ (mm)	Cv value	Connection (Flare)		Operation range pulse	Airtight test pressure (MPa)	* 2 M.O.P.D. (MPa)	Strainer	* 3 Wt. (kg)
				Side B	Side A					
GKV-18BS	R23 R134a R404A	1.8	0.10					3.5	Inlet-side 120 mesh	1.6
GKV-34BS	R410A R448A R449A	3.4	0.31	3/8"	1/2"	0 to 480	4.2	1.77		
GKV-60BS	R407H R463A-J	6.0	0.54							

* 1 For other refrigerants, please contact us.

* 2 Please be aware of O.P.D when using with high-pressure refrigerant such as R410A.

* 3 Includes coil.

TYPE NUMBER SELECTION

Catalog No.	Capacity (U.S.R.T.) (kW)							
	CT 38°C / ET 5°C / SC 0K / SH 0K (* R23 : CT -10°C / ET -50°C / SC 0K / SH 0K)							
	R23 *	R134a	R404A	R410A	R448A	R449A	R407H	R463A-J
GKV-18BS	3.5 {12.4}	2.3 {8.1}	2.1 {7.3}	3.4 {12.1}	3.0 {10.6}	2.9 {10.2}	3.5 {12.2}	3.7 {13.0}
GKV-34BS	10.9 {38.3}	7.1 {25.0}	6.4 {22.5}	10.7 {37.5}	9.3 {32.7}	9.0 {31.5}	10.7 {37.7}	11.5 {40.3}
GKV-60BS	19.0 {66.7}	12.4 {43.5}	11.2 {39.2}	18.6 {65.4}	16.2 {57.0}	15.6 {54.9}	18.7 {65.7}	20.0 {70.2}

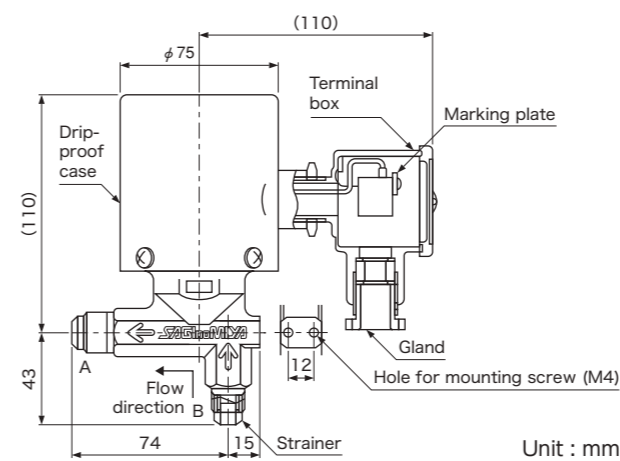
COIL SPECIFICATIONS

Catalog No. (Valve body)	* 1 Rated voltage	Current	Power consumption	* 2 Insulation class
GKV-18BS to 60BS	12V.DC ± 10%	0.26A / Phase (20°C)	Approx. 6.5W	Class E molded

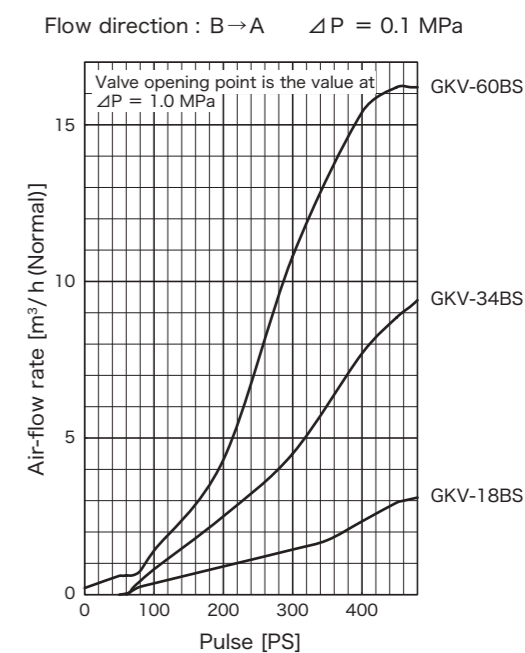
* 1 24V.DC coil is also available. Please contact us for details.

* 2 Compliant with IEC60085, 60335-2-40.

DIMENSIONS



FLOW CHARACTERISTICS



RELATED PRODUCT

- EEV controllers Type YNE (Pages 35 to 38)