MOTOR OPERATED VALVES / Type AKV



Type AKV

High Volume OEM Item

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

Coil sold separately

FEATURES

- Hot gas compatible.
- No hysteresis when opening or closing the valve.
- Energy-saving design (No holding power required).
- Bi-flow operation.
- Standards : UL, cUL (Please contact us for details.)

APPLICATIONS

- Chillers
- Packaged air conditioners, etc.

COMMON SPECIFICATIONS

Max. working pressure : 4.2 MPa
Fluid temperature : -30 to 120℃

(It should be 50% or less on energizing ratio.)

Ambient temperature : -30 to 60℃

(It should be 50% or less on energizing ratio.)

Flow direction : Bi-flow

• Excitation method: 1-2 phase, Uni-polar

DESCRIPTION OF CATALOG NO.

$$\frac{\mathsf{AKV}}{\mathsf{I}} - \frac{\mathsf{55}}{\mathsf{II}} \; \frac{\mathsf{D}}{\mathsf{II}} \; \frac{\square \square}{\mathsf{IV}}$$

I	Туре				
II Port size					
Ш	Connection type				
IV	Serial number				

* Coil is not included with the valve body. Please purchase it separately.

TYPE NUMBER SELECTION

Catalog No.	* 1 Refrigerant	Port size ϕ (mm)	Cv value	* 2 Connection (Solder) (mm)	Operation range pulse	B → A M.O.P.D. (MPa)	A → B Valve closing pressure (MPa)	* 3 Wt. (kg)
AKV-55D	R134a R404A R407C R410A R448A R449A R407H R463A-J	5.5	0.81	- φ 15.88 ODM	0 to 480	2.3	0.5 or less	0.42
AKV-65D		6.5	0.96					

- * 1 For other refrigerants, please contact us.
- * 2 Connection A and B are the same size.
- * 3 Valve only. (without coil)

TYPE NUMBER SELECTION

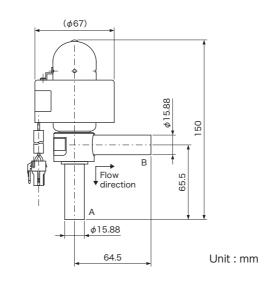
				Capacity (U	.S.R.T.) {kW}					
Catalog No.	CT 38°C / ET 5°C / SC 0K / SH 0K									
	R134a	R404A	R407C	R410A	R448A	R449A	R407H	R463A-J		
AKV-55D	18.5 {65.2}	16.7 {58.8}	25.3 {88.8}	27.9 {98.1}	23.9 {84.2}	23.4 {82.4}	28.0 {98.6}	29.7 {104.5}		
AKV-65D	22.0 {77.3}	19.8 {69.7}	29.9 {105.2}	33.1 {116.2}	28.4 {99.8}	27.8 {97.6}	33.2 {116.9}	35.2 {123.9}		

COIL SPECIFICATIONS

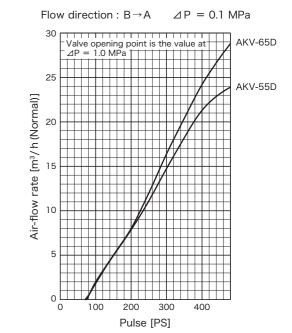
Catalog No. (Coil)	Rated voltage	Current	Power consumption	* 1 Insulation class	* 2 Wt. (kg)
AKV-MOZS □□□	12V.DC ± 10%	0.38A / Phase (20℃)	Approx. 9.5W	Class E molded	0.4

- $*\,1$ Compliant with IEC60085, 60335-2-40.
- * 2 For lead wire length of 700mm.

DIMENSIONS



FLOW CHARACTERISTICS



RELATED PRODUCT

Pulse converters Type LNE (Pages 39 to 40)

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