

SALES HEADQUARTERS:

SAGINOMIYA SEISAKUSHO, INC. Shinjuku Garden Tower 22F 8-2, Okubo 3-chome, Shinjuku-ku Tokyo, 169-0072 Japan E-mail: inter@saginomiya.co.jp

EUROPE SALES OFFICE:

SAGINOMIYA EUROPE Sp. z o.o. Address: Aleje Jerozolimskie 212 02-486 Warsaw, Poland E-mail: info@saginomiya.eu Telephone: +48 22 101 30 00

REGIONAL SALES OFFICES:

Central Headquarter:

Europe Sales office

SAGINOMIYA AMERICA, INC. Address: 655 Metro Place South suite 700, Dublin, Ohio 43017, U.S.A. E-mail: Sales@saginomiya-am.com

FOSHAN HUALU AUTOMATIC CONTROLS LIMITED Address: No.59 & 61, Wenhua Nan Road, Chancheng District, Foshan, Guangdong, China E-mail: salesdept@foshanhualu.com

Saginomiya (Thailand) Co., Ltd. Address: 159 Serm-mit Tower 19th FL., Sukhumvit 21 Rd., North-Klongtoey, Wattana, Bangkok 10110, Thailand E-mail: info@saginomiya.co.th

Distributors

Regional Sales offices

RIMSA SAGINOMIYA, S.A. DE C.V. Address: Av. Central No. 126, Parque Industrial Toluca 2000, Km. 52.8 Carretera Toluca Naucalpan, C.P. 50200, Toluca, Edo. De Mexico, E-mail: rimsa@saginomiya.com.mx



UKV Electronic Expansion Valve















Technical parameters Maximum working pressure: 42 bar (150 bar for CO₂ models) Compatible refrigerants: R22, R134a, R404A, R407C, R410A and R744 for CO₂ models Ambient temperature: -30°C to 60°C (-30°C to 70°C for CO₂ models) Fluid Temperature: UKV *: -30°C to 70°C Main advantages * Models for special high temperature applications (up to 120°C) available upon request of Saginomiya **Modulation:** Electronic Permanent magnet type direct operating unipolar stepper motor Coil voltage: **Expansion Valve** 12 VDC Electrical connection: JST XHP-6 *Other connectors available upon request. Precise flow control. High temperature range. **General Description** Patented, innovative construction

The KV electronic expansion valves open and close to regulate refrigerant flow by means of a screw structure. This occurs by the rotation of a magnet-needle valve assembly which moves when electrical signals are applied to the surrounding coil. Within the coil structure, there are different winding configurations and the polarities are changed by the electrical signals applied. By application of the appropriate combination of signals (in the form of short, electrical pulses) the coil forces the rotor of the valve to move in a stepwise fashion.

the direction of choice, in order for the valve to achieve the required position. High precision of screw movement is ensured by very small value of displacement during one micro-step (pulse).

UKV ELECTRONIC EXPANSION VALVE

Series	Oriffice [mm]	Capacity [kW]			MWP [MPa]	MODD [MDa]
		R134a	R407C	R410A	IVIVVP [IVIPA]	MOPD [MPa]
UKV-08	0,8	1,2	1,6	1,8	4,2	
UKV-10	1,0	2,0	2,7	3,1		3,5
UKV-14	1,4	4,5	5,9	6,8		
UKV-18	1,8	8,1	10,6	12,1		
UKV-25	2,5	15,3	20,1	23,0		
UKV-30	3,0	20,9	27,5	31,5		2,8
UKV-32	3,2	22,5	29,6	33,9		
UKV-40	4,0	30,6	40,2	48,6		2,5

Note (1) Capacity calculated for conditions: CT=38°C, ET=5°C, SC=0K, SH=0K,

Note (2) Capacity in the table are given for fully opened valve.

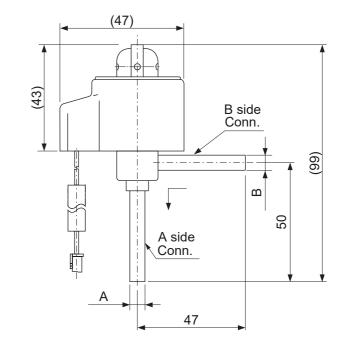
UKV-J, JKV ELECTRONIC EXPANSION VALVE FOR CO2

				MOPD [MPa]
UKV-J08	0,8	2,7		
UKV-J10	1,0	4,4		
UKV-J14	1,4	9,7	15	10
JKV-20	2,0	20,6		
JKV-24	2,4	24,2		

Note (3) Capacity calculated for conditions: Gas cooler outlet CT=38°C, ET=0°C, SH=0K, CP=100 bar.

Note (4) Capacity in the table are given for fully opened valve.

TYPE UKV



Catalog No.		
UKV-08D	Øε	5,35
UKV-10D		
UKV-14D		
UKV-18D		
UKV-25D	Ø 7	,94
UKV-30D		
UKV-32D		
UKV-40D		

Application of multiple pulses will make the valve mechanism move through a series of steps in



for noise reduction.

• Wide range of capacity.

High reliability built upon

30 years of experience.

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