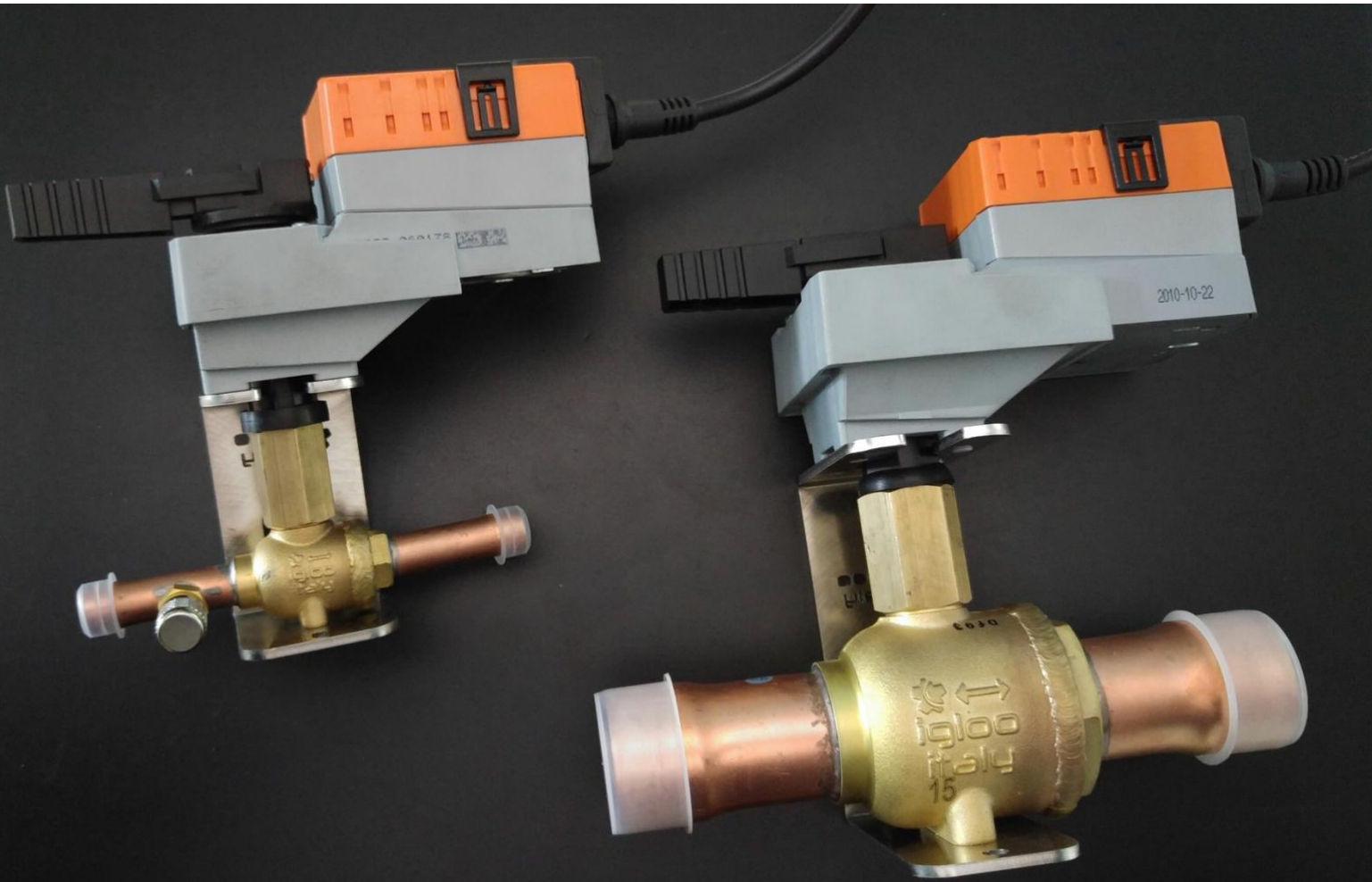


Full bore electronic valves



Full bore electronic valves

IGLOO MOTO full-bore electronic valves are ball valves for refrigerants operated by brushless servo-actuators and are suitable for oil, liquid, suction and hot gas lines in refrigeration and air conditioning systems: on-off models can be used to shut off the flow and modulating models can be used to regulate it.

All models are equipped with service port.

Unlike other electronic valves such as solenoid valves, the full-bore orifice ensures high flow rate with minimal pressure drop across the valve and internal leaks when valve is closed lower than 1 gram/year of refrigerant.

On request all models can be made in 3-way version or with step motors.

Features

- Wide temperature range:
 - Fluid from -40°C (-40°F) to +150°C (+300°F)
 - Ambient from -30°C (-22°F) to +55°C (+130°F)
- All sizes full-bore
 - Higher flow rate, lower pressure drop
- Internal seal independent of differential pressure across the valve
 - No need for check valves to ensure sealing
- Bi-directional flow
 - Can be mounted in any direction
- With service port for any maintenance operations on the system
- Fully hermetic welded construction
- All valves produced are individually tested for leakage and pressure
 - Test pressure 70bar
 - Helium leak test in high vacuum according to EN 1779.B6
- Valve balls have a pressure equalization hole
 - Torque required for valve opening/closing independent of pressure
 - Prevents refrigerant from being trapped in the valve body cavity, with the resulting potential rupture from overpressure in case of overheating
- Anti-blowout operating stem mounted from inside
- Can be fixed to panel
- Selected formulations of Teflon® and technical elastomers for internal seals

Customizations

- All models can be made in 3-way version
- All models can be made with step motors

Full bore electronic valves

Approvals

CE (PED, RoHS, REACH, LV, ECM), EAC

Technical information

Suitable for HC, HFC, HFO refrigerants (and their blends)

BKA Series	with access port	-40 ÷ +150 °C -40 ÷ +300 °F	45 bar 650 psig
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Standard supply

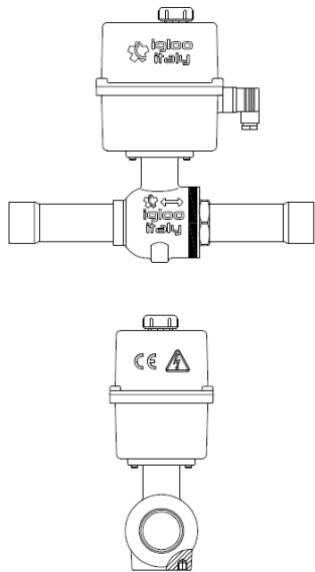
IGLOO MOTO valves are supplied with brackets for actuators already assembled. The valves have holes that allow easy wall fixing.

IGLOO MOTO valves are individually packaged in cardboard boxes and the actuator is supplied in a separate package. Both have their respective assembly instructions.

We recommend connecting the actuator to the valve only after brazing the latter, in order to prevent damage due to overexposure to the heat source.

Available models

BKA Series, standard



Mod.	ODF Connections (aka ODS)		Orifice	Kv (m3/h)	PED 2014/68/EU	
	mm	inch	Ø S (mm)	UNI 9182:2010	Risk category	
BKA-M6	O.D. 6mm	-	10	1,2	Excluded Art.4 Par.3	
BKA-4	-	O.D. 1/4"	10	1,2		
BKA-5	O.D. 8mm	O.D. 5/16"	10	1,2		
BKA-6	-	O.D. 3/8"	10	3,5		
BKA-M10	O.D. 10mm	-	10	3,5		
BKA-M12	O.D. 12mm	-	10	6,6		
BKA-8	-	O.D. 1/2"	10	6,6		
BKA-M15	O.D. 15mm	-	13	15		
BKA-10	O.D. 16mm	O.D. 5/8"	13	15		
BKA-M18	O.D. 18mm	-	16	20		
BKA-12	O.D. 19mm	O.D. 3/4"	16	20		
BKA-14	O.D. 22mm	O.D. 7/8"	19	24		
BKA-M28	O.D. 28mm	-	25	42		
BKA-18	-	O.D. 1.1/8"	25	42		
BKA-22	O.D. 35mm	O.D. 1.3/8"	32	65		
BKA-26	-	O.D. 1.5/8"	40	110		
BKA-M42	O.D. 42mm	-	40	110		I
BKA-34	O.D. 54mm	O.D. 2.1/8"	50	190		
BKA-M64R	O.D. 64mm	-	50	300		
BKA-M64	O.D. 64mm	-	65	300		
BKA-42R	-	O.D. 2.5/8"	50	300		
BKA-42	-	O.D. 2.5/8"	65	300		
BKA-48RR	O.D. 76mm	O.D. 3"	50	300		
BKA-48R	O.D. 76mm	O.D. 3"	65	300		
BKA-50RR	O.D. 80mm	O.D. 3.1/8"	50	300		
BKA-50R	O.D. 80mm	O.D. 3.1/8"	65	300		