



IB-K Interface Board

Electronic Circuit Board





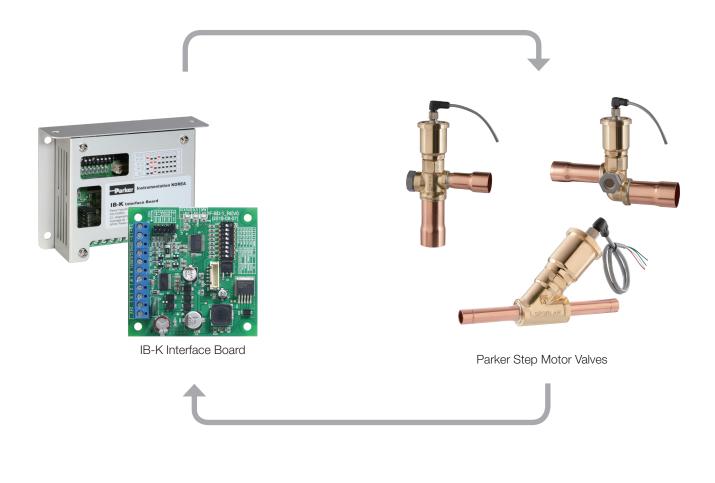
ENGINEERING YOUR SUCCESS.

Introduction

The IB-K is developed to be applicable in Korea and various markets. It is also applicable to Parker Sporlan products and all step motor valves manufactured in Korea and China.

The IB-K is a small electronic circuit board that extends the functionality of an external system controller to drive step motor valves.

The external controller must provide an analog 0-10VDC or 4-20mA signal to the IB-K.



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Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

Features

- The IB-K Interface Board is available for all Parker step motor valves.
- Precise control of various stepping motors is possible.
- Applicable to all valves with bipolar and unipolar control of 4 phases
- The compact size allows you to minimize the mounting space.

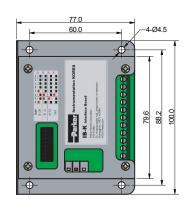
Specifications

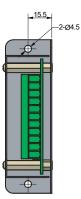


Part number	Connections	Input Voltage	Output Voltage	Control Signal	Excitation Speed	Excitation Method	
	Туре	[DC V]	[DC V]	[V,mA]	[pps]	Bipolar	Unipolar
IB-K IB-K-C	Lead Wire	24	12	0-10V, 4-20mA	30~400	2 phase excitation	1-2 phase excitation









IB-K-C (Case Ass'y)

Applications

- Air conditioner
- Heat pump system
- Refrigerator cargo vehicles
- Supermarket system
- Semiconductor chiller
- Other refrigerant devices

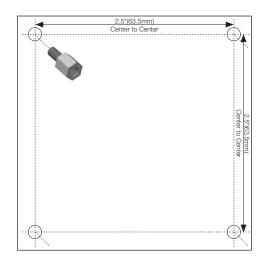
Applicable Valve Type & Step Stroke

VALVE TYPE	STEP STROKE	MOTOR TYPE
SDR-1x, SDR-2, SDR-2x, SEI-1/2 thru SEI-11	1596	Bipolar
CDS-2,4,7, SER-AA, SER-A, SER-B, SER-C, SER(I)-G, SER(I)-F, SER(I)-J, SER(I)-K	2500	Bipolar
SDR-3, SDR-3x, SEI-30	3193	Bipolar
CDS-9, CDS-16, CDS-17, SDR-4, SHE	6386	Bipolar
SER-B-U, SER-C-U, SER-D-U, SER-E-U	1596	Unipolar
ESX, SEV, CEV	500	Unipolar
PEV, WEV	2000	Bipolar, Unipolar

Installation

Mouting Instructions

- Non metallic standoffs (Not included with IB-K)



Screw standoffs in place (8-32 thread or smaller)



Screw IB-K standoffs. (Screws Not included)

SETUP IB-K

Install jumper to see control signal



0-10V



4~20mA 300Ω

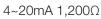


4~20mA 600Ω



4~20mA 1,000Ω





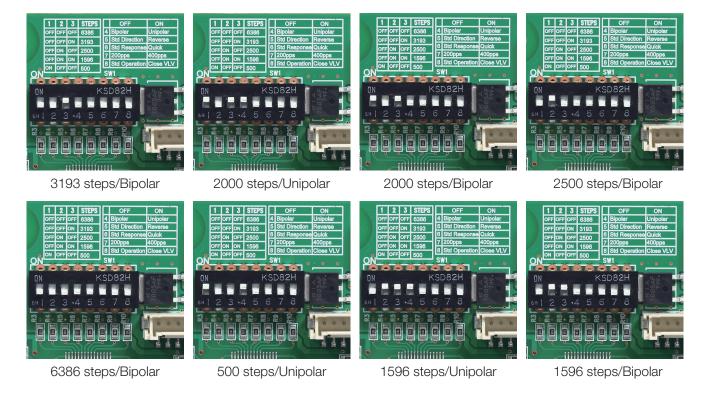


Transformer requirements: One stepper motor valve per IB-K (30VA per IB-K Board) Two stepper motor valves per IB-K (40VA per IB-K board). Only one unipolar valve can driven per IB-K. Power supply requirements: The 24V power supply is non-polar and has no +, - distinction. 3.5 in.-lbs. maximum torgue on all screw terminals.

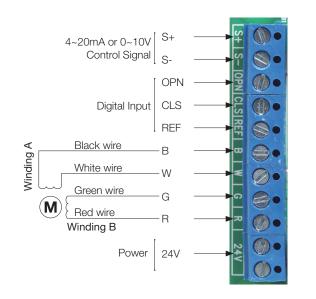
IB-K

SETUP IB-K

Set dip switches for valve type and operation

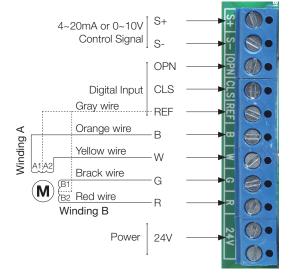


WIRE IB-K



Bipolar Valve

Unipolar Valve



Notes

Parker

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Fluid & Gas Handling

Key Markets Aerial lift Agriculture Bulk chemical handling Construction machinery Food & beverage Fuel & gas delivery Industrial machiner Life sciences Marine Mining Mobile Oil & gas Renewable energy Transportation

Key Products

Check valves Connectors for low pressure fluid conveyance Deep sea umbilicals Diagnostic equipment Hose couplings Industrial hose Mooring systems & power cables PTFE hose & tubing Quick couplings Rubber & thermoplastic hose Tube fittings & adapters Tubing & plastic fittings



Aerospace

Kev Markets Aftermarket services Commercial transports Engines General & business aviation Helicopters Launch vehicles Military aircraft Missiles Power generation Regional transports Unmanned aerial vehicles

Key Products

Control systems & actuation products Engine systems & components Fluid conveyance systems & components Fluid metering, delivery & atomization devices Fuel systems & components Fuel tank inerting systems Hydraulic systems & components Thermal management Wheels & brakes



Motion & Control Technologies...

Agriculture Air conditioning Construction Machinery Food & beverage

Industrial machinery Life sciences Oil & das Precision cooling Process Refrigeration Transportation

Key Products

Accumulators Advanced actuators CO, controls Electronic controllers Filter driers Hand shut-off valves Heat exchangers Hose & fittings Pressure regulating valves Refrigerant distributors Safety relief valves Smart pumps Solenoid valves Thermostatic expansion valves



Pneumatics Key Markets

Conveyor & material handling Factory automation Life science & medical Machine tools Packaging machinery Transportation & automotive

Kev Products

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Electromechanical

Key Markets Aerospace Factory automation Life science & medical Machine tools Packaging machinery Paper machinery Plastics machinery & converting Primary metals Semiconductor & electronics Textile Wire & cable

Key Products

AC/DC drives & systems Electric actuators, gantry robots & slides Electrohydrostatic actuation systems Electromechanical actuation systems Human machine interface Linear motors Stepper motors, servo motors, drives & controls Structural extrusions



Process Control

Kev Markets Alternative fuels **Biopharmaceuticals** Chemical & refining Food & beverage Marine & shinbuilding Medical & dental Microelectronics Nuclear Power Offshore oil exploration Oil & das Pharmaceuticals Power generation Pulp & paper Water/wastewater

Key Products

Analytical Instruments Analytical sample conditioning products & systems Chemical injection fittings & valves Fluoropolymer chemical delivery fittings, valves & pumps High purity gas delivery fittings, valves, regulators & digital flow controllers Industrial mass flow meters/ controllers Permanent no-weld tube fittings Precision industrial regulators & flow controllers Process control double block & bleeds Process control fittings, valves, regulators & manifold valves



Filtration

Key Markets Aerospace Food & beverage Industrial plant & equipment Life sciences Marine Mobile equipment Oil & das Power generation & renewable energy Process Transportation Water Purification

Key Products

Analytical gas generators Compressed air filters & dryers Engine air, coolant, fuel & oil filtration systems Fluid condition monitoring systems Hydraulic & lubrication filters Hydrogen, nitrogen & zero air generators Instrumentation filters Membrane & fiber filters Microfiltration Sterile air filtration Water desalination & purification filters &



Sealing & Shielding

Kev Markets Aerospace Chemical processing Consumer Fluid power General industrial Information technology Life sciences Microelectronics Military Oil & das Power generation Renewable energy Telecommunications Transportation

Key Products

Dynamic seals Elastomeric o-rings Electro-medical instrument design & assembly EMI shielding Extruded & precision-cut, fabricated elastomeric seals High temperature metal seals Homogeneous & inserted elastomeric shapes Medical device fabrication & assembly Metal & plastic retained composite seals Shielded optical windows Silicone tubing & extrusions Thermal management Vibration dampening



Hydraulics

Key Markets Aerial lift ∆ariculture Alternative energy Construction machinery Forestry Industrial machinery Machine tools Marine Material handling Mining Oil & gas Power generation Refuse vehicles Renewable energy Truck hydraulics Turf equipment

Key Products

Accumulators Cartridge valves Electrohydraulic actuators Human machine interfaces Hybrid drives Hydraulic cylinders Hydraulic motors & pumps Hydraulic systems Hydraulic valves & controls Hydrostatic steering Integrated hydraulic circuits Power take-offs Power units Rotary actuators Sensors

Aerospace

Vacuum generators, cups & sensors

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