













Features

- Precision control: Full range 2000 step precision control of resolution is possible
- Reduction of driving noise: More than 30% driving noise is improved compared to direct drive type valves SEV and CEV by multi-stage reduction gear operation method
- Bidirectional control is possible and it is available to apply to heating/cooling system(Heat pump)
- It keeps the air tightness by completely shutting off the fluid flowing in Full Close state. (Solenoid replacement effect)
- Fast response and linear controllability, energy saving

Specifications

Part number	Connections		Orifice	Flow Coefficient	Max. Pressure Differential	Internal leakage	Capacity (KW)					
	Туре	Size (Inch)	(mm)	KV[m³/h]	[bar]	cc/min	R-22	R134a	R404a	R507	R407C	R410A
PEV20-A	ODF	5/16"	2	0.11	35	≤100	8.8	6.6	11.4	11.4	8.8	10.5
PEV32-A	ODF	5/16"	3.2	0.18	35	≤100	14.1	10.6	18.3	18.3	14.1	16.9
PEV52-A	ODF	1/2"	5.2	0.41	35	≤600	28.1	21.1	36.6	36.6	28.2	33.8

Applications

- Applicable refrigerants: HCFC and HFC (R22, R134a, R404a, R407C, R410A, R507A....)
- Air conditioner
- Heat pump system
- Refrigerator cargo vehicles
- Supermarket system
- Semiconductor Chiller
- Other refrigerated device

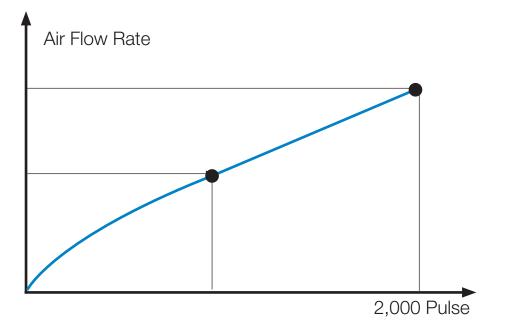
Electrical Specifications

- Rated voltage: DC12V (± 10%)
- Drive system: 4-phase control gear reduction stepping motor
- Excitation Mechanism: 1-2 Phase Unipolar Excitation
- Pulse speed: 100~250pps (Pulse per Sec.)
- Coil Current: 0.1A Max. /Phase
- Motor Resistance: 150Ω ± 10% (@ 20°C)
- Insulation Grade: Class E (120°C)

General Specifications

- Capacity: 1USRT~8USRT(R22 Refrigerant standard)
- Pulse Range : 0~2000step
- Operating Temp. Range: -40°C ~+60°C
- Refrigerant Temp. Range : -40°C ~ +70°C
- Relative humidity : 0~95% RH
- Flow direction: Bi-directional
- Installation direction: The coil is in the upward direction and the valve is in the vertical direction within ± 20°
- It is recommended that the entrance is a horizontal direction and the exit is a vertical direction.
- Acquisition standard: Need to acquire

Flow characteristics



Dimensions

Figure 1

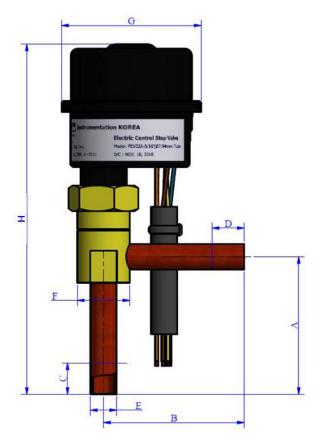
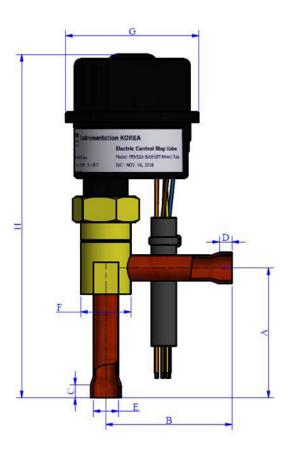


Figure 1-2



Part number	Dimensions									
	А	В	С	D	Е	F	G	н	Figure No.	
PEV20-A	43	43	9.8	9.8	Ø7.94	Ø16.0	Ø42.6	112.6	#1	
PEV32-A	43	43	9.8	9.8	Ø7.94	Ø16.0	Ø42.6	112.6	#1	
PEV52-A	50	50	9.8	9.8	Ø12.8	Ø20.0	Ø42.6	119.6	#2	

Notes

Notes

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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...

Climate Control

Key Markets 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



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



Pneumatics Key Markets

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

Kev Products

Air preparation Brass fittings & valves Manifolds Pneumatic accessories Pneumatic actuators & grippers Pneumatic valves & controls Quick disconnects Rotary actuators Bubber & thermoplastic hose & couplings Structural extrusions Thermoplastic tubing & fittings Vacuum generators, cups & sensors

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