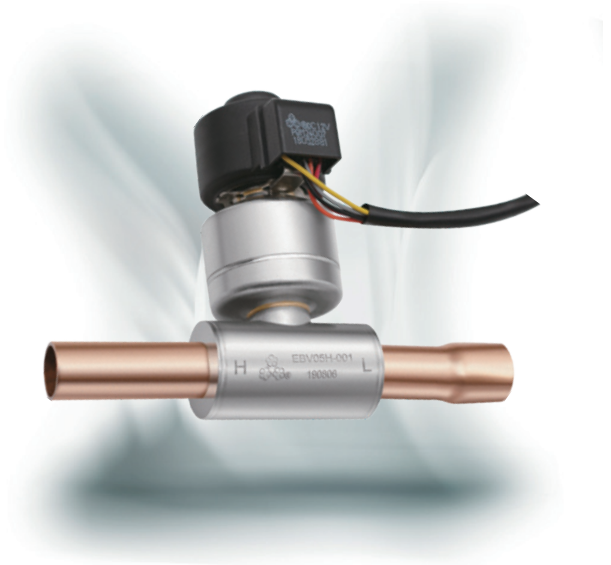


EBV SERIES

Electric Ball Valve

EBV electric ball valve can adjust the refrigerant flow and cut off the refrigerant passage according to the system operating conditions, and is suitable for occasions with requirements such as flow resistance, liquid hammer, opening and closing noise and energy consumption. It can replace the pressure regulating valve, electronic expansion valve and solenoid valve at the same time, and play the role of pressure regulation and refrigerant on-off. In the R32 system, it can be used as a safety valve to immediately cut off the system circuit once a refrigerant leak is detected



FEATURES

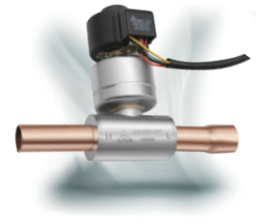
- SOLENOID VALVE FUNCTION:
- BIDIRECTIONAL ON-OFF CONTROL
- OPEN AND CLOSE SLOWLY TO AVOID LIQUID HAMMER AND FLUID IMPACT NOISE
- ENERGY SAVING, ONLY CONSUMES ENERGY DURING THE ACTION PROCESS
- FULL-BORE CORE BALL, LARGE FLOW, LOW PRESSURE LOSS
- SRTONG VALVE OPENING ABILITY, RELIABLE ACTION FROM 0 TO 3.3MPA
- ELECTRONIC EXPANSION VALVE FUNCTION:
- LARGE OPEN FLOW, LOW PRESSURE LOSS
- SMALL FLOW WITH HIGH ADJUSTMENT ACCURACY
- LOW INTERNAL LEAKAGE, FULLY CLOSED CAN BE USED AS A BLOCK VALVE

GENERAL SPECIFICATIONS

- Applicable for all common HCFC, HFC refrigerants such as: R134a, R404A, R407C, R410A, R32, etc.
- Medium temperature TS min./max.: -40°C~+120°C
- Ambient temperature min./max.: -30°C~+55°C
- Relative humidity: 0 to 100% RH
- Full stroke: EBV05/EBV07 2800 steps
EBV09 3500steps
- Installation position:
 - Coil installed in the upwards position, valve body central axis within $\pm 15^\circ$ versus vertical axis

EBV SERIES

Electric Ball Valve



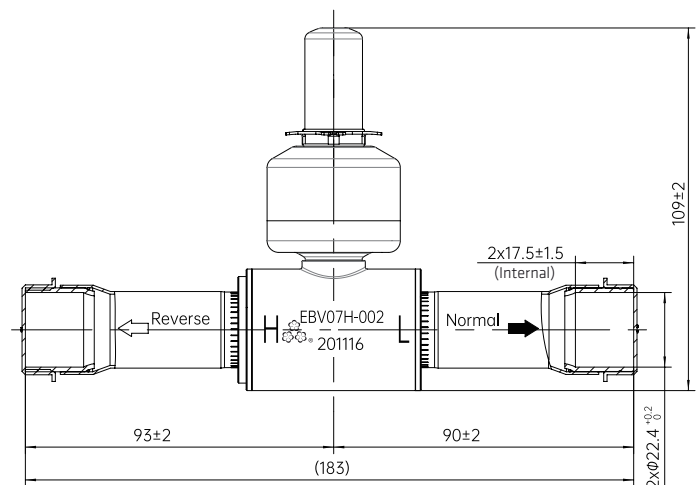
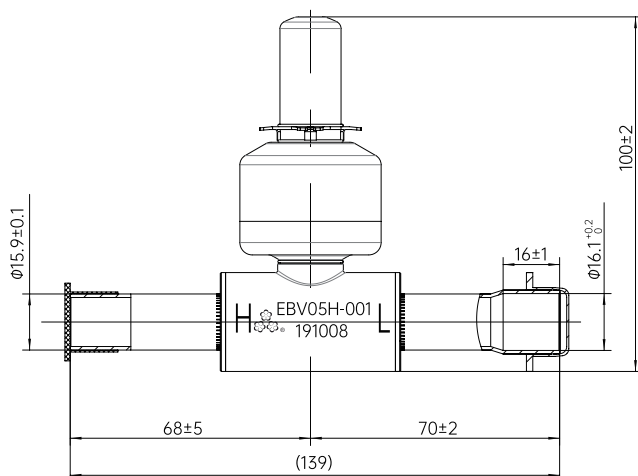
ELECTRICAL PARAMETERS

- Actuating mode: EBV05/ EBV07 2Phase excitation, unipolar and bipolar actuation are optional
EBV09 bipolar actuation
- Excitation rate: EBV05/ EBV07 100pps
EBV09 200-300pps
- Coil current: EBV05/ EBV07 Unipolar: 260mA/phase Bipolar: 167mA/phase
EBV09 320mA/phase
- Activation of self-holding mechanism: Maintain excitation in stop position min. 0.1~1.0 sec
- Insulation class of coil: E
- Protection class: IP67

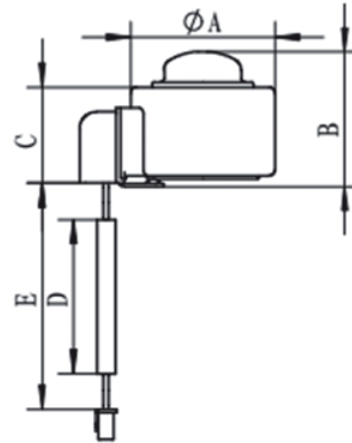
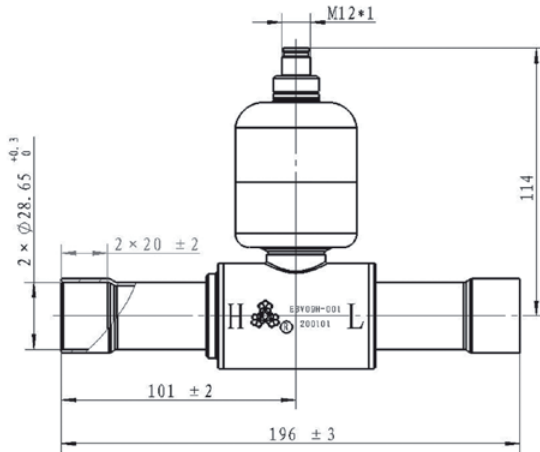
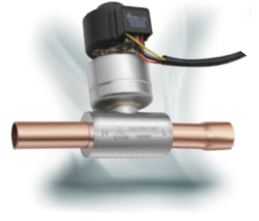
TECHNICAL PARAMETER

Model	Connections		MOP	OPD		Cv	Internal leakage	Medium temperature	Ambient temperature
	Øin	Øout		H-L	L-H				
	[inch]	[inch]	[MPa]	[MPa]	[MPa]	m ³ /h	ml/min	[°C]	[°C]
EBV05H-001	5/8	5/8	4.3	3.3	1.5	10	≤300	-40/+120	-30/+55
EBV07H-002	7/8	7/8	4.3	1.5	0.6	18	≤300	-40/+120	-30/+55
EBV07H-003	1-1/8	1-1/8	4.3	3.3	0.6	18	≤300	-40/+120	-30/+55
EBV09H-003	1-1/8	1-1/8	4.3	3.3	1.5	35	≤300	-40/+120	-30/+55

DIMENSIONS



EBV SERIES
Electric Ball Valve



Coil Model	Actuating mode	Dimensions					Terminal model	Applicable valve series
		ØA	B	C	Cable length	D		
PQ-M10012-001059	Unipolar	38.5	35.8	25.6	700	600	XHP-5	EBV05/EBV07
PQ-M10012-001091	Unipolar	38.5	35.8	25.6	1500	1400	XHP-5	
PQ-M10012-001002	Unipolar	38.5	35.8	25.6	2000	1800	XHP-5	
PQ-M35012-001003	Bipolar	38.5	35.5	25.6	6000	5700	-	