

ECVS series Electric Control Valves

Summary

ENLENIDA is proud to offer the ECVS Screwed and ECVF Flanged End Control Valve.

These valves are mainly use in the HVAC system to regulate the flow of water and steam in response to the demand of a controller.



Feature

- Complete range from DN 15 to DN250
- 2 Way Normally Open, 3 Way Convergent and Diverting
Single/Balance Seat, Normal Radiating Temperature (with cooling fin)
- Forged brass body or Stainless Steel, Steel, Cast Iron
- Low leakage factor of up to 0.05%
- High close-off pressure actuator satisfies demanding requirements of high-rise buildings and high pressure pumping systems
- PN 16 or 232 PSI system operating pressure
- Actuator can be factory or field installed
- Equal Percentage Flow Characteristic

Specifications



Model	ECVS : Screwed Connection
	ECVF: Flanged Connection
	3-way: Convergent and Diverting
Valve Body Pressure Rating	232 psig (PN16 or 1,600 kPa) Meets Requirements of ANSI B16.15, Class 250
Fluid / Ambient Temperature Limits	2 to 120 oC water at an Ambient Temperature of 40 oC (ECVS/ECVF)
	2 to 180 oC water / steam at an Ambient Temperature of 40 oC (ECVS/ECVFwith Cooling Fin)
Shipping & Storage Temperature Limits	-40 to 70 oC (-40 to 158 oF)
Service	Hot water, Chilled water, Glycol solutions, or Steam for HVAC System
Body Thread	BSP Parallel (Gas Parallel) BSP Taper (Gas Tapered)NPT (American Standard Pipe Thread)
Valve Stroke	10mm : DnN20 - 90sec
	16mm : DN25, DN32 - 90sec
	19mm : DN50, DN50 - 90sec
	40mm : DN65/80/100 - 110-180sec
	40mm : DN125/150/200 - 110-180sec
	60mm : DN200 - 270sec
Inherent flow	Equal percentage: 2 way valves
Characteristic Linear	3 way valves Max. recommended operating
Material body	steel, stainless steel, cast iron, iron and brass
Ambient temp.	-2 -120C (2-way)
	-2 -200C (3-way)
Medium temp.	Max. 130C
Position	0-10V feedback signal
Seat Leakage	0.05%

Product Application Reference Electric Control Valves

Specifications

Nominal Diameter DN (mm)	20	25	32	40	50	65	80	100	125	150	200
Rated Flow Factor Kv	6.3	10	16	25	40	63	100	160	250	400	600
Max Stroke(mm)	10	16	19	39							60
Total Stroke Time (sec.)	90			110-180							270
ECVS-2..Single seat & ECVS-3..Electric control valve with dif modules. P(MPa)	EVAM(0)62-05	0.90	0.61	0.38	0.20	—	—	—	—	—	—
	EVAM(0)62-10	1.40	0.90	0.50	0.36	0.24	—	—	—	—	—
ECVS-2..Balance valve & ECVS-3..Electric control valve with dif modules. P(MPa)	EVAM(0)62-18	—	—	—	0.70	0.55	0.30	0.13	—	—	—
	EVAM(0)62-30	—	—	—	—	—	0.70	0.41	0.25	—	—
ECVS-2..Balance valve & ECVS-3..Electric control valve with dif modules. P(MPa)	EVAM(0)62-10	—	—	—	0.72	—	—	—	—	—	—
	EVAM(0)62-18	—	—	—	1.00	0.72	—	—	—	—	—
	EVAM(0)62-30	—	—	—	—	—	—	—	0.82	—	—

Specifications

Type	Valve Body	Valve stem, Valve seat	Nominal Pressure (Mpa)	Leakage	Flow Feature	Media	Media Temperature
2-way Balance	Castiron, steel,	Stainless steel	1.6 4.0 6.4	<0.02%	Equal percentage or proportional	Water, Vapor, ethanethiol	Common type 2~120°C Heat Dissipation Type 2-350°C
	stainless steel brass			<0.05%			
3-way	stainless steel brass			<0.05%	Proportional		

Product Application Reference **Electric Control Valves**

Mounting

- Clean the pipe before installation, install a filter & an exhaust valve at the entrance of valve to remove gravel, rust and other dirt.
- Vertical installation of the valve is preferred. Horizontal or inclined installations are acceptable if required, but care must be given to support the valve, particular for the larger valve size or if vibration is present.
- Sufficient clearance must be allowed for actuator maintain or removal only.
- The connection of flange on valve body with pipe should be on the same axial center to prevent shear stress.
- The arrow point on the valve body should be the same as the flow direction.
- Under certain conditions, by passing pipes are needed for switching to manual operation for maintain or fault investigating.
- The valve body needs the heat-reserving process, or it will effect the valve operation especially when the temperature is high. But the actuator does not need.
- Water is not permitted to infiltrate into the actuator and wiring must correspond to the spot rule.
- Before connecting the power, check the voltage to avoid damaging the motor. The power switch should be "off" when checking the valve.

Ordering code

ECV-X-X0 XX XX X

