

AD3 / HD3 type Electric Actuator Specifications

FEATURE

The high performance electric actuator of powerful DC motor use developed for filtration machines the 5 way ball valve.

It drives into the position of each process by the change incoming signal of three processes of filtration, reverse flow, and cleaning.

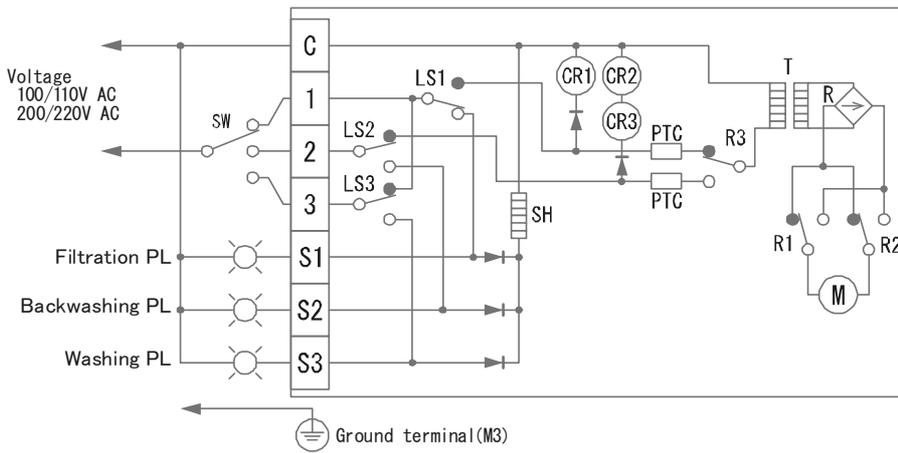
As for operation, raw water does not flow to a direct processing water side by positive and the inversion rotation system.

A regulation set up is possible for the Form L and Form R.

SPECIFICATION

Actuator type (□:Voltage code)		AD3-300-□	AD3-700-□	HD3-02K-□	HD3-06K-□
Voltage		100 / 110 AC V $\pm 10\%$ 50/60 Hz (Code: 1) 200 / 220 AC V $\pm 10\%$ 50/60 Hz (Code: 2)			
Rated torque [N·m]		30	70	200	600
Operation time [s]	Filtration → Reverse flow	5 to 8	10 to 18	16 to 30	50 to 90
	Reverse flow → Cleaning	4 to 6	8 to 14	12 to 23	38 to 67
	Cleaning → Filtration	2 to 3	3 to 6	4 to 7	12 to 23
Power consumption (Max) [VA]		100		150	
Motor		DC motor			
Overload protection		Thermistor			
Method of operation		Transfer input type			
Operation		When SW1 is ON, it's Filtration. (Filtration PL is lit.) When SW2 is ON, it's Reverse flow. (Reverse flow PL is lit.) When SW3 is ON, it's Cleaning. (Cleaning PL is lit.)			
Output signal rating		300 to 02K : Resistance load 10 A 250 V AC (Minimum 27 mA) 06K : Resistance load 3 A 250 V AC (Minimum 0.1 A)			
Duty cycle		20 % 15 min. (When ambient temperature is over +50 °C, 10 % 15 min.)			
Ambient temperature		-20 to 55 °C			
Space heater		0.8 W			
Manual operation		Manual over-ride with clutch. (Direct operation / 06K: Operation by manual shaft.)			
Enclosure		Equivalent to IP65 (IEC 60529)			
Housing material		Aluminum alloy diecast (acrylic resin baking finish)			
Wire connection		Terminal Block: M3, Ground terminal: M3			
Conduct port		2-G1/2 Attachments: Cable gland (for $\Phi 6$ to 12 mm cable), plug.			

WIRING



- LS1 : Filtration limit switch
- LS2 : Reverse flow limit switch
- LS3 : Cleaning limit switch
- M : Motor
- SH : Space heater
- PTC : Thermistor
- T : R core transformer
- R1 : Built-in relay
- R2 : Built-in relay
- R3 : Built-in relay

Note) It cannot to change at a cleaning process form a filtration process by directly.
Once switch to the cleaning process after changing it a reverse cleaning process.

Operation (Top view of valve)

