



## DIAL-A-MATIC PROGRAMABLE VALVE CONTROLLER



The new and improved *KZCO* Dial-a-matic valve controller uses leading edge microchip technology to provide the user with programmable valve positioning that is both accurate and repeatable. Repeatability is assured with new “overshoot” programming, thus eliminating gear-lash and valve coupler slop. An oversized, 3-digit, alphanumeric display conveys the position in a 0 to 100% format with three field programmable set-points. Each set-point as well as 0 and 100% (valve full open and full closed) is named to the users request with up to three alphanumeric characters. Factory defaults unless specified by the customer are: CLS, LOW, Mid, Hi, and OPN. All of these positions are easily recalled with one touch of

the OPEN / CLOSE switch. The Dial-a-matic controller is available with virtually all EH2 and EH4 valve combinations.

### ▪ Installation

The Dial-a-matic controller mounts easily on a desired panel, in any orientation. A square cutout of 3 1/8” is required, centered inside the 3 3/4” square bolt pattern. Wiring is effortless with a one-piece harness. The standard harness comes assembled with 25’ of cable to the valve actuator and a 12’ power lead from the controller.

### ▪ Operation

Two military grade toggle switches make up the users controls of the Dial-a-matic. The switches allow the user to not only adjust the valve to any given position but program the position of each set-point as well. The *INCREASE / DECREASE* switch allows the user to adjust valve position by one percentage point at a time towards open or close. The *OPEN / CLOSE* switch gives one touch access to each of the set-points.

### ▪ Programming

Each of the three programmable set-points corresponds to a value within the 0 to 100% range. The value for each set-point is easily adjusted by using both toggle switches. For example: To adjust the value for the LOW set-point, use the *OPEN / CLOSE* switch to recall the set-point without releasing the switch. After three seconds, the set-point name will change to its corresponding value on the display. While maintaining activation of the *OPEN / CLOSE* switch, use the *INCREASE / DECREASE* switch to adjust the value up or down as desired. Each set-point is programmable in the same manner.

# Dial-a-matic / Valve Combinations

## KZCO Stainless Steel Valves

<b>89i-42DM-W1</b>	2" full port, 3 piece, 2-way stainless steel ball valve, 1000psi
<b>89H-42DM-W1</b>	1 1/2" full port, 3 piece, 2-way stainless steel ball valve, 1000psi
<b>89G-42DM-W1</b>	1 1/4" full port, 3 piece, 2-way stainless steel ball valve, 1000psi
<b>89F-42DM-W1</b>	1" full port, 3 piece, 2-way stainless steel ball valve, 1000psi

## Akron Retrofit Kits

<b>AKF-42DM-W1</b>	7800 and 8800 series, 1" Akron retrofit kit
<b>AKH-42DM-W1</b>	7800 and 8800 series, 1 1/2" Akron retrofit kit
<b>AKi-42DM-W1</b>	7800 series, 2" Akron retrofit kit
<b>AKJ-42DM-W1-4</b>	7800 series, 2 1/2" Akron retrofit kit
<b>AKK-42DM-W1-4</b>	7800 series, 3" Akron retrofit kit
<b>AK8-42DM-W1</b>	8800 series, 2" Akron retrofit kit
<b>AK8-42DM-W1-4</b>	8800 series Akron retrofit kit for 2 1/2" and 3" valves

## KZCO Nylon Valves

<b>NF2H-42DM-W1</b>	1 1/2" full port 2-way nylon ball valve w/ SS ball, rated to 200psi
<b>NF6H-42DM-W1</b>	1 1/2" full port 3-way, BL, nylon valve w/ SS V-ball, rated to 200psi
<b>NF2i-42DM-W1</b>	2" full port 2-way nylon ball valve w/ SS ball, rated to 125psi

## Butterfly Valves

<b>59i-42DM-W1</b>	2" EPDM butterfly valve, rated to 150psi
<b>59K-42DM-W1</b>	3" EPDM butterfly valve, rated to 150psi
<b>59L-42DM-W1-4</b>	4" EPDM butterfly valve, rated to 50psi

## Dial-a-matic Wiring Harness Pin-Out

### Controller

Pin 1	Red	+12VDC IN
Pin 2	Black	-12VDC IN
Pin 3	Blank	
Pin 4	Green	Digital COM in, from actuator
Pin 5	White	Digital COM out, to actuator
Pin 6	Blank	
Pin 7	Black	-12VDC to actuator
Pin 8	Red	+12VDC to actuator

### Actuator

Pin 1	Black	-12VDC in, from controller
Pin 2	Green	Digital COM out, to controller
Pin 3	White	Digital COM in, from controller
Pin 4	Red	+12VDC in, from controller