

General Description

The AH2 Hydramotors are push-type, self-contained, electrohydraulic linear actuators which extend when powered and retract by spring force upon power interruption.

AH2 Hydramotors provide a fast spring return shutoff time of one second or less. When the actuator is mounted to a V710 gas valve, position indicators on both sides of the actuator show the open or closed position of the valve.

The AH2 Hydramotor/V710 gas valve combination provides reliable main line gas control for a wide range of applications, including boilers, furnaces, ovens and all types of industrial and commercial burners. It is available in either a slow or fast opening construction.

Specifications

Power Requirement: 220 VA max.

Closing Time: One second max.

Opening Time:

Fast Opening: 14 seconds max.

Slow Opening: 26 seconds max.

Note: Opening time is double between -30°F and -40°F ambient. Opening time increased 20% when operating on 50Hz.

Enclosure

Type 1, 2, 3, 3S, 4, 12, and 13 Combination General Purpose, Watertight, Dusttight and Driptight.

Ambient Temperature

-40°F to 150°F (-40°C to 66°C)

Electrical

Actuator:

Standard voltages:

24, 120, 240 volts, AC, 60 Hz

Proof of Closure Switch: (optional)

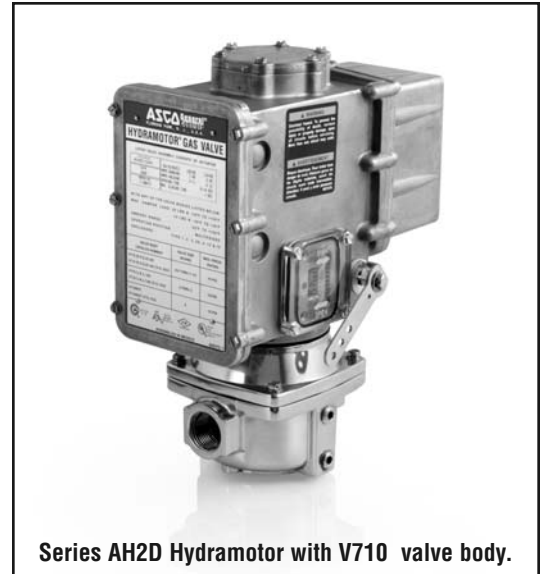
A factory set, non-field adjustable SPDT switch. 1800VA max. connected load (e.g. one 15A load @ 120V or two 3.75A loads @ 240V).

Auxiliary Switches: (optional)

One or two integral SPDT switches; field adjustable to actuate at any position of stroke. 1800 VA max. connected load (e.g. one 15A load @ 120V or two 3.75A loads @ 240V).

Electrical Characteristics

Voltage	Amperes		
	Inrush	Opening	Holding
24V	28	8.00	0.73
120V	5.6	1.85	0.11
240V	2.8	0.92	0.05



Series AH2D Hydramotor with V710 valve body.

Installation

AH2 Hydramotor mounts in any position directly to a V710 valve with 4 set screws.




Damper Arm Rating

Drives damper in one direction only. 20 lb. max. at 2.85" radius at 20°F to 150°F and 10 lb. max. at -40°F to 20°F.

Approvals

AH2 Hydramotor with V710 valve.

 File # MP932, Vol. 17, Sec. 3, Safety Valves

 CSA Certified to:

- 1) Automatic Gas Valves Z21.21 (6.5), File 109157 and 113070.
- 2) Automatic Gas Safety Shutoff Valves C/I (3.9), File 113070.

 JI 3000606
 Gas Safety Shut-off Valves screws.

Ordering Information

Important: Order by Catalog Number and add suffix number for desired optional feature. e.g. AH2D112A5

Specifications

Applications	Catalog Number		
	24 V	120 V	240 V
On-Off Slow Opening (14 to 26 seconds)			
Standard on-off	AH2D101A	AH2D102A	AH2D104A
Proof of closure	AH2D101S	AH2D102S	AH2D104S
On-Off Fast Opening (6 to 14 seconds)			
Standard on-off	AH2D111A	AH2D112A	AH2D114A
Proof of closure	AH2D111S	AH2D112S	AH2D114S

Optional Features

(add appropriate suffix number to catalog number)

One Auxiliary Switch (add suffix 2)

Spring Return Damper Arm (add suffix 3)

Damper Shaft & Arm (add suffix 4)

Damper Shaft, Arm & one Auxiliary Switch, (add suffix 5)

Manual Reset (add suffix R)

Dimensions inches (mm)

