

General Description

The Normally Closed H117 is a combination Hydramotor® actuator and safety shutoff/control gas valve. It is used for commercial and industrial burners in applications such as furnaces, dryers, dehydrators, conversion burners and heaters.

The cast iron valve body provides high flow and self cleaning operation. Its soft synthetic seat and integral, heavy-duty return spring closes the valve tightly upon current interruption, in one second or less.

The self-contained, hermetically sealed, pull-type electrohydraulic actuator consists of a motor/pump unit immersed in oil, reducing wear and providing highly reliable operation.

Specifications

Fluid: Fuel gas

Opening Time: 20 seconds max.

Closing Time: 1 second max.

Note: Opening time increases 20% with 50Hz

Enclosure: Type 1 General Purpose standard.

Type 4/7 Watertight/Explosion proof optional.

Ambient Temperature: -40°F to 150°F (-40°C to 66°C)

Body Class: Cast Iron, 1" to 3" - 250# screw, 4" - 125# flange.

Pipe Taps: 1/4" upstream & downstream taps for routine leak testing.

Electrical

Power Requirement: 158 VA max.

Standard Voltage: 110-120V/50-60Hz & 220-240V/50-60Hz

Operating Voltage	Amperes		
	Inrush	Opening	Holding
110-120V/50-60Hz	13.2	1.32	0.14
220-240V/50-60Hz	6.6	.66	0.07

Auxiliary Switch: One integral SPDT switch, 15A@120V, 7.5A@240V, (1800VA max.). Actuates at full open position of actuator stroke (not adjustable). Up to 6 adjustable yoke mounted switched may be added.

Proof of Closure Switch: Optional factory set non-field adjustable SPDT switch, 15A@120V, 7.5A@240V (1800VA max.).



Installation

Multi-poise, may be mounted in any position.

Approvals:

UL listed

FM Approved

GSA Certified to:

1) Automatic Gas Safety Shutoff Valves C/I (3.9), File 113070.

Specifications

Catalog Number	Pipe Connection (NPT)	Gas Capacity (ft ³ /hr)*	Cv Flow	Max. Operating Pressure Differential (psi)	Const. Ref.	Opening Time (Sec.)	Shipping Weight lbs.
Fast Opening							
H117AJ112F1	2	8,000	151	20	1	12-18	75
H117AK112F1	2 1/2	12,900	244	8	2	12-18	105
H117AL112F1	3	17,000	320	8	3	12-18	105
H117AN112F1	4 (Flange)	27,000	510	4	4	12-20	140
Fast Opening with Valve Seal Overtravel Interlock (FM Proof of Closure)							
H117AJ112F1F26V16	2	8,000	124	20	1	12-18	80
H117AK112F1F26V16	2 1/2	12,900	171	8	2	12-18	110
H117AL112F1F26V16	3	17,000	320	8	3	12-18	110
H117AN112F1F26V16	4 (Flange)	27,000	444	4	4	12-20	145

*One cubic foot per hour = 1,000 Btu/hr, 0.64 specific gravity natural gas @ 1" W.C.P.D.

Dimensions: inches

Const. Ref.	A	B	C
1	8.13	18.13	2.50
2	10.88	18.63	2.88
3	10.88	18.63	3.88
4	13.88	20.00	4.06

Replacement Actuators:

Catalog Number	Voltage
H10A620B5F1	110-120V/50-60Hz
H10A640B5F1	220-240V/50-60Hz

For FM Proof of Closure add F26 to Cat. No.

Replacement Switches:

Kits	Switches*	Type
S104772EA1	1	Auxiliary (Adjustable)
S104772EA2	2	
S104772EA3	3	
S104772EAX1	1	Proof of Closure

* Yoke Mounted

