

General Description

The Normally Closed H118 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, globe-type valve body features a soft synthetic seat and integral heavy-duty return spring for tight and certain closure in one second or less upon current interruption.

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

Specifications

Fluid: Fuel gas

Opening Time: 28 seconds max.

Closing Time: 1 second max.

Enclosure: Type 1 General Purpose standard.

Type 4/7 Watertight/Explosionproof 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. (1-3"), 288 VA max. (4")

Standard Voltage: 110-120V/50-60Hz

Operating Voltage	Amperes		
	Inrush	Opening	Holding
1" Through 3"			
110-120V/50-60Hz	13.2	1.32	0.14
220-240V/50-60Hz	6.6	.66	0.07
4" Only			
110-120V/50-60Hz	24.0	2.40	0.18
220-240V/50-60Hz	12.0	1.20	0.09

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 switches 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

CSA 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							
H118AF122F1	1	915	17	35	1	7-18	22
H118AG122F1	1 1/4	1,155	25	35	1	7-18	23
H118AH122F1	1 1/2	1,525	35	25	2	8-20	28
H118AJ122F1	2	3,300	67	15	3	10-24	32
H118AK122F1	2 1/2	3,730	86	15	4	11-28	52
H118AL122F1	3	6,095	125	15	5	12-18	54
H118AN132F1	4 (Flange)	9,710	168	15	6	15-24	148
Fast Opening with Valve Seal Overtravel Interlock (FM Proof of Closure)							
H118AJ122F1F26V16	2	3,300	67	15	3	9-17	37
H118AK122F1F26V16	2 1/2	3,730	86	15	4	11-20	57
H118AL122F1F26V16	3	6,095	125	15	5	13-23	59
H118AN132F1F26V16	4 (Flange)	9,710	168	15	6	15-24	153

*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	5.13	14.65	1.93
2	6.50	15.15	2.56
3	8.13	15.00	2.70
4	9.50	15.38	3.28
5	10.88	15.81	3.75
6	13.88	23.88	5.00

Replacement Actuators:

Catalog Number ①	Voltage
H10A620B5F1	110-120V/50-60Hz
H10A640B5F1	220-240V/50-60Hz
H30A2220B20F1 ②	110-120V/50-60Hz

① For FM Proof of Closure add F26 to Cat. No.
② 4-inch size only.

Replacement Switches:

Kits	Switches*	Type
1" through 3"		
S104772EA1	1	Auxiliary (Adjustable)
S104772EA2	2	
S104772EA3	3	
S104772EAX1	1	Proof of Closure
4" only		
S104772FA1	1	Auxiliary (Adjustable)
S104772FA2	2	
S104772FA3	3	
S104772FAX1	1	Proof of Closure

* Yoke Mounted

