

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" | | |
| 104772EA1 | 1 | Auxiliary (Adjustable) |
| 104772EA2 | 2 | |
| 104772EA3 | 3 | |
| 104772EAX1 | 1 | Proof of Closure |
| 4" only | | |
| 104772FA1 | 1 | Auxiliary (Adjustable) |
| 104772FA2 | 2 | |
| 104772FA3 | 3 | |
| 104772FAX1 | 1 | Proof of Closure |

* Yoke Mounted

