Hydramotor® Operated **Gas Shutoff Valves** 1" to 3" NPT, 4" Flange • Cast Iron Body

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 electro-hydraulic actuator consists of a motor/pump unit immersed in oil, reducing wear and provides highly reliable operation.

Specifications

Fluid: Fuel gas

Opening Time: 28 second max. Closing Time: 1 second max.

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 (1-3"), 288 VA max. (4")

Standard Voltage: 120V/60Hz

240V/60Hz (Optional)

Operating		Amperes						
Voltage	Inrush	Inrush Opening						
	1" Through 3"							
120V/60Hz	13.2	1.32	0.14					
240V/60Hz	6.6	0.66	0.07					
	4" Only							
120V/60Hz	24.0	2.40	0.18					

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 (English units)

Pipe Size	Cv Flow	Gas Capacity ①		Pressure tial (psi)	Max. Fluid	Catalog Number	Const.		Agency		Opening	Approx. Shipping Weight
(ins.)	Factor	Cu. Ft/hr.	Min.	Max.	Temp.°F	2 3	Ref.	UL	FM	CSA	Time (Sec.)	(lbs)
COMBUS	STION (Fu	el Gas) - Norma	lly Closed									
Standard	d Trim											
1	17	915	0	35	150	H118AF122F1	1	0	0	0	7-18	22
1 1/4	25	1,155	0	35	150	H118AG122F1	1	0	0	0	7-18	23
1 1/2	35	1,525	0	25	150	H118AH122F1	2	0	0	0	8-20	28
2	67	3,300	0	15	150	H118AJ122F1	3	0	0	0	10-24	32
2 1/2	86	3,730	0	15	150	H118AK122F1	4	0	0	0	11-28	52
3	125	6,095	0	15	150	H118AL122F1	5	0	0	0	12-18	54
4 (Flange)	168	9,710	0	15	150	H118AN122F1	6	0	0	0	15-24	148
Valve Se	al Overtra	avel Trim (Proof	of Closure)									
2	67	3,300	0	15	150	H118AJ122F1F26V16	3	0	0	0	9-17	37
2 1/2	86	3,730	0	15	150	H118AK122F1F26V16	4	0	0	0	11-20	57
3	125	6,095	0	15	150	H118AL122F1F26V16	5	0	0	0	13-23	59
4 (Flange)	168	9,710	0	15	150	H118AN122F1F26V16	6	0	0	0	15-24	153
O = Safe	etv Shutof	f Valve. ① One c	u. ft/hr = 1.00	0 Btu/hr. 0.64	Specific Grav	ity Gas @ 1" W.C.P.D.			•		- '	

Specifications (Metric units)

Pipe Size	Kv Flow	Gas Capacity ①		Pressure tial (bar)	Max. Fluid	Catalog Number	Const.		Agency		- Opening	Approx. Shipping Weight
(ins.)	(m³/hr)	Cu. Ft/hr.	Min.	Max.	Temp.°C	2 3	Ref.	UL	FM	CSA	Time (Sec.)	(kgs)
COMBUS	STION (Fu	el Gas) - Norma	lly Closed									
Standard	l Trim											
1	14	915	0	2.4	66	H118AF122F1	1	0	0	0	7-18	10
1 1/4	21	1,155	0	2.4	66	H118AG122F1	1	0	0	0	7-18	10.5
1 1/2	30	1,525	0	1.7	66	H118AH122F1	2	0	0	0	8-20	12.7
2	57	3,300	0	1	66	H118AJ122F1	3	0	0	0	10-24	14.5
2 1/2	73	3,730	0	1	66	H118AK122F1	4	0	0	0	11-28	23.6
3	106	6,095	0	1	66	H118AL122F1	5	0	0	0	12-18	24.5
4 (Flange)	143	9,710	0	1	66	H118AN122F1	6	0	0	0	15-24	67.3
Valve Se	al Overtra	avel Trim (Proof	of Closure)						•			
2	57	3,300	0	1	66	H118AJ122F1F26V16	3	0	0	0	9-17	16.8
2 1/2	73	3,730	0	1	66	H118AK122F1F26V16	4	0	0	0	11-20	25.9
3	106	6,095	0	1	66	H118AL122F1F26V16	5	0	0	0	13-23	26.8
4 (Flange)	143	9,710	0	1	66	H118AN122F1F26V16	6	0	0	0	15-24	69.5

Replacement Actuators:

Catalog Number ①	Voltage				
H10A620B5F1	120V/60Hz				
H10A640B5F1	240V/60Hz				
H30A2220B20F1 @	120V/60Hz				
① For FM Proof of Closure ad F26 to Cat. No. ② 4" size only					

Replacement Switches:

Kits	Switches*	Туре					
1" Through 3"							
S104772EA1	1	A 115					
S104772EA2	2	Auxiliary (Adjustable)					
S104772EA3	3	(riajaotabio)					
S104772EAX1	1	Proof of Closure					
4" Only							
S104772FA1	1						
S104772FA2	2	Auxiliary (Adjustable)					
S104772FA3	3	(, , , , , , , , , , , , , , , , , , ,					
S104772FAX1	1	Proof of Closure					
* Yoke Mounted							

② Type 4/7 Watertight/Explosionproof chage 5th digit to "B" (EX: H118BF112F1). ③ 240V/60Hz change 9th digit to "4" (EX: H118AF124F1) - 1" through 3" only.

 ^{⊃ =} Safety Shutoff Valve. ① One cu. ft/hr = 1,000 Btu/hr, 0.64 Specific Gravity Gas @ 1" W.C.P.D.
② Type 4/7 Watertight/Explosionproof chage 5th digit to "B" (EX: H118BF112F1). ② 240V/60Hz change 9th digit to "4" (EX: H118AF124F1) - 1" through 3" only.



Dimensions inches (mm)

Const Ref.		Α	В	С
1	ins.	5.13	14.65	1.93
'	mm	130	372	49
2	ins	6.50	15.15	2.56
4	mm	165	385	65
3	ins	8.13	15.00	2.70
٥	mm	207	381	69
4	ins	9.50	15.38	3.28
	mm	241	391	83
5	ins	10.88	15.81	3.75
"	mm	276	402	95
6	ins	13.88	23.88	5.00
0	mm	353	607	127



