

## General Description

The HOV1 is an underported, globe-type, fuel oil valve with a single, quick-opening, stem-guided seat. This 2-way normally closed, bronze safety shutoff valve features a spring-loaded stem which, upon power interruption, drives the teflon seat firmly closed within one second. The HOV1 is available with or without valve seal overtravel interlock (FM proof of closure).

The electrohydraulic actuator consists of a pump applying pressure to a diaphragm attached to the valve stem. Its power unit is immersed in oil and hermetically sealed. The HOV requires no adjustment or service. Stroke is controlled by a travel limit switch and electromagnetic relief valve. The unit rotates 360° for ease of installation. Two-wire connection via 1/2 inch threaded conduit terminal box is standard, and all units are equipped with an auxiliary switch and dust shields.

## Fluid

- No. 2 Fuel Oil at 60 SSU
- No. 4 Fuel Oil at 300 SSU
- No. 5 Fuel Oil at 5000 SSU
- No. 6 Fuel Oil at 5000 SSU (Heated)

## Specifications

- Opening Time:** 7-9 seconds
- Closing Time:** 1 second max.
- Note:** Opening time increased 20% with 50Hz.
- Enclosure:** Type 1 General Purpose
- Ambient Temperature:** -10°F to 125°F (-23°C to 52°C)
- Fluid Temperature:** 267° max.
- Body/Trim:** Bronze, 300# screw
- Seal Material:** PTFE
- Port Size:** 9/16"

## Electrical

- Power Requirement:** 158 VA
- Standard Voltage:** 120V/60Hz

Operating Voltage	Amperes		
	Inrush	Opening	Holding
120V/60Hz	12.5	1.25	0.09

**Auxiliary Switch:** One integral SPDT switch, 7.5A@120V, 3.75A@240V, (900VA max). Switch actuates at energized end of stroke (not adjustable).

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



## Installation

May be mounted with actuator upright or horizontal with switches uppermost.

## Approvals

- UL listed
- FM Approved
- CSA Certified to:
  - 1) Standard C22.2 No. 139 "Electrically Operated Valves, File 113070.

**Specifications (English units)**

Pipe Size (ins.)	Cv Flow Factor	Operating Pressure Differential (psi)		Max. Fluid Temp. °F	Catalog Number	Const. Ref.	Agency			Opening Time (Sec.)	Approx. Shipping Weight (lbs)
		Min.	Max.				UL	FM	CSA		
<b>COMBUSTION (Fuel Oil) - Normally Closed</b>											
<b>Standard Trim</b>											
1/2	4	0	300	267	HOV1A302T15	1	○	○	○	7-9	12
3/4	5	0	300	267	HOV1A307T15	1	○	○	○	7-9	12
1	6	0	300	267	HOV1A312T15	2	○	○	○	7-9	13
<b>Valve Seal Overtravel Trim (Proof of Closure)</b>											
1/2	4	0	300	267	HOV1A302T171	1	○	○	○	7-9	12
3/4	5	0	300	267	HOV1A307T171	1	○	○	○	7-9	12
1	6	0	300	267	HOV1A312T171	2	○	○	○	7-9	13

**Specifications (Metric units)**

Pipe Size (ins.)	Kv Flow (m <sup>2</sup> /hr)	Operating Pressure Differential (bar)		Max. Fluid Temp. °C	Catalog Number	Const. Ref.	Agency			Opening Time (Sec.)	Approx. Shipping Weight (kgs)
		Min.	Max.				UL	FM	CSA		
<b>COMBUSTION (Fuel Oil) - Normally Closed</b>											
<b>Standard Trim</b>											
1/2	3.4	0	20.7	131	HOV1A302T15	1	○	○	○	7-9	5.5
3/4	4.3	0	20.7	131	HOV1A307T15	1	○	○	○	7-9	5.5
1	5.1	0	20.7	131	HOV1A312T15	2	○	○	○	7-9	5.9
<b>Valve Seal Overtravel Trim (Proof of Closure)</b>											
1/2	3.4	0	20.7	131	HOV1A302T171	1	○	○	○	7-9	5.5
3/4	4.3	0	20.7	131	HOV1A307T171	1	○	○	○	7-9	5.5
1	5.1	0	20.7	131	HOV1A312T171	2	○	○	○	7-9	5.9

## Dimensions inches (mm)

Const. Ref.		A	B	C	D	E
1	ins.	3.75	11.56	2.21	3.11	7.55
	mm	95	294	56	79	192
2	ins.	4.25	11.87	2.37	3.42	7.86
	mm	108	301	60	87	200

### Replacement Actuators:

**Standard**  
H01A252A15  
**Models with FM Proof of Closure Valve**  
**Seal Overtravel Switch**  
H01A252A171



