

General Description

The HOV13 is an underported, poppet-type, bronze-bodied safety valve, electrohydraulically operated to provide reliable ON-OFF control of fuel oil. The spring-loaded stem-guided teflon seat opens within seven seconds of power application and firmly closes within one second of power interruption.

The valve is agency approved for fuel oil safety shutoff service on the N.C. port. The N.O. port typically provides return to the oil preheater during the off cycle. The HOV13 is available with or without valve seal overtravel interlock (FM Proof of Closure). All valves are furnished with dust shields.

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, requiring no adjustment or service. Stroke is controlled by a travel limit switch and electromagnetic relief valve. The unit rotates for ease of installation. Two-wire connection via 1/2" threaded conduit terminal box is standard, and all units are equipped with an auxiliary switch.

Specifications

Fluid: Fuel Oil

- 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)

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: 13/32"

Electrical

Power Requirement: 150 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		
COMBUSTION (Fuel Gas) - Normally Closed											
Standard Trim											
1/2	2.5	0	300	267	HOV13A162T15	1	○	○	○	7-9	13
3/4	3	0	300	267	HOV13A167T15	1	○	○	○	7-9	13
Valve Seal Overtravel Trim (Proof of Closure)											
1/2	2.5	0	300	267	HOV13A162T171	1	○	○	○	7-9	13
3/4	3	0	300	267	HOV13A167T171	1	○	○	○	7-9	13

Specifications (Metric units)

Pipe Size (ins.)	Kv Flow (m³/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		
COMBUSTION (Fuel Gas) - Normally Closed											
Standard Trim											
1/2	2.1	0	20.7	131	HOV13A162T15	1	○	○	○	7-9	5.9
3/4	2.6	0	20.7	131	HOV13A167T171	1	○	○	○	7-9	5.9
Valve Seal Overtravel Trim (Proof of Closure)											
1/2	2.1	0	20.7	131	HOV13A162T15	1	○	○	○	7-9	5.9
3/4	2.6	0	20.7	131	HOV13A167T171	1	○	○	○	7-9	5.9

Dimensions inches (mm)

Const. Ref.		A	B	C	D	E
1	ins.	3.75	11.56	3.00	3.11	7.55
	mm	95	294	76	79	192

Replacement Actuators:

Standard
H01A552A15
Models with FM Proof of Closure Valve
Seal Overtravel Switch
H01A552A171



