

97130



Shand & Jurs Co.

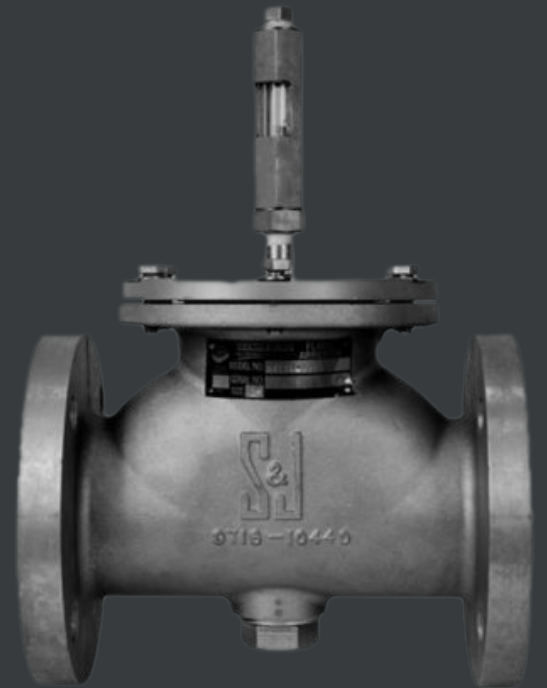
A COGNESENSE BRAND

Thermal Valve (Flashback-Activated Gas Shutoff Valve)

The Shand & Jurs Biogas® Model 97130 is a thermally actuated shutoff valve installed in low-pressure gas piping to stop gas flow when abnormal heat indicates a fire condition. The valve remains open during normal operation and closes automatically when the line temperature reaches the 255°F fusible element melt point, releasing a spring-loaded pallet that positively seals the line.

Gas-handling systems upstream of flares, burners, and boilers/heat exchangers can continue to feed fuel during fire exposure unless mechanically isolated. The thermal element provides autonomous shutdown without power, controls, or operator action, preventing continued fuel discharge into a fire zone. A visual indicator rod confirms closure, and the fusible element can be replaced without disassembling the valve. The thermal valve is typically used in conjunction with a deflagration arrester.

Rated for working pressures up to 5 psig and installable in horizontal or vertical piping, the valve provides passive fire protection in combustible gas service environments.



Key Features

255°F fusible thermal element

Automatically shuts off gas flow when pipeline temperature rises due to fire exposure.

Spring-loaded positive shutoff pallet

Provides mechanical closure independent of plant utilities or controls.

Visual indicator rod

Confirms valve actuation without removing insulation or opening piping.

Replaceable fusible element

Restores service quickly without removing the valve from the line.

Horizontal or vertical installation

Simplifies placement in existing piping layouts.

Optional proximity switch

Sends closure confirmation to control or alarm systems.



Benefits



AUTOMATIC FLASHBACK ACTIVATED ISOLATION

Prevents continued fuel supply that intensifies equipment damage.



PASSIVE MECHANICAL OPERATION

Maintains protection during power loss or control system failure.



RAPID POST-EVENT RESET

Minimizes downtime and service labor after activation.



POSITIVE CLOSURE CONFIRMATION

Reduces the time required to verify safe conditions after an incident.



REMOTE ALARM CAPABILITY

Enables faster operator response and emergency coordination.



INSULATION JACKET

Reduces the risk of freezing and maintains drainage reliability in cold climates. Note: Heat source shall be maintained under jacket.

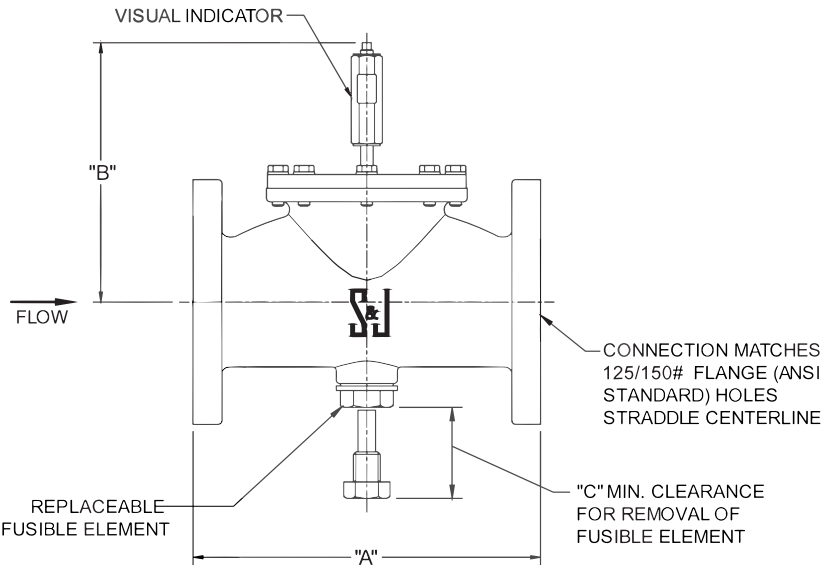
Key Performance Data

Parameter	Value
Operating Function	Thermal fire-activated shutoff
Activation Temperature	255°F fusible element
Pressure Rating	Up to 5 psig
Line Sizes	2" – 12"
Installation	Horizontal or Vertical
Body Material	Low-copper aluminum or 316 stainless steel
Internals	Stainless steel
Sight Indicator	Pyrex glass with NBR gaskets



Dimensions

(Inches [mm])			
Line Diameter	"A"	"B"	"C"
2 [50]	8 ¾ [222]	8 ⅞ [225]	2 [50]
3 [75]	10 [254]	9 ½ [241]	2 [50]
4 [100]	11 ¾ [289]	9 ½ [241]	2 [50]
6 [150]	15 [381]	11 ⅞ [302]	4 [100]
8 [200]	22 ¼ [565]	13 ⅞ [352]	5 ½ [140]
10 [250]	27 13⁄16 [706]	14 ⅞ [378]	5 ½ [140]
12 [300]	33 [838]	20 ½ [521]	8 [200]



Model Number Selection

The model number will have a base number 97130 followed by 5 digit numbers. These digits will represent 4 sets of option tables.

97130 - A - B - C - DE

Table A - Line Size

Option A	Description
2	2"
3	3"
4	4"
6	6"
8	8"
0	10"
1	12"

Table B - Body Material

Option B	Description
A	Aluminum
B	316 Stainless Steel

Summary

Fire conditions require immediate fuel isolation without reliance on controls or power. The Model 97130 provides automatic mechanical shutdown when exposed to elevated temperature, preventing continued gas flow into hazardous areas. Installed upstream of burners and flares, it acts as a passive safety barrier that limits damage, shortens recovery time, and maintains plant protection during emergency events.

Table C - Mounting (Hardware)

Option C	Description
0	Horizontal/Vertical (316SS)

* 316SS Hardware is standard

Table DE - Accessories

Option DE	Description
10	None
20	Proximity Switch
2A	2" Insulation Jacket
3A	3" Insulation Jacket
4A	4" Insulation Jacket
6A	6" Insulation Jacket
8A	8" Insulation Jacket
0A	10" Insulation Jacket
1A	12" Insulation Jacket
2B	2" Insulation Jacket & Proximity Switch
3B	3" Insulation Jacket & Proximity Switch
4B	4" Insulation Jacket & Proximity Switch
6B	6" Insulation Jacket & Proximity Switch
8B	8" Insulation Jacket & Proximity Switch
0B	10" Insulation Jacket & Proximity Switch
1B	12" Insulation Jacket & Proximity Switch

info@cognesense.com

Tel: (708) 236-6000

5911 Butterfield Road Hillside, Illinois 60162 USA

This document is for information purposes only. All designs subject to change. Certified dimensions, specifications, and performance data available upon request

www.cognesense.com