

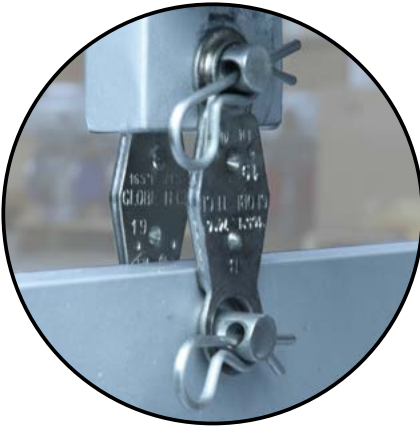


FSCV Series Swing Check Emergency Shut-off for Gas, Liquid, or Vapor



Flo-Tite's FSCV series ANSI flanged swing-check valves with fusible links are designed to provide a simple yet effective method of closing in an emergency or hazardous situation.

The valves are designed with an external spring load and held in the open position with the fire-sensitive fusible link. The valve will automatically close when the link melts due to fire or high temperatures. The external lever rotates the hinge pin which drives the disc into the closed position, stopping the flow of the liquid, gas or vapor.



Dual Fusible Link

FEATURES

- Local and/or remote actuation
- Fire-Safe fusible link
- Economical solution for required safety
- Can be used in horizontal and vertical service
- All valves are factory tested to API 598
- Back pressure ensures a tight seal between the disc and seat
- Once closed, the valve can ONLY be reset manually as a safety feature

TYPICAL APPLICATIONS

- Refineries
- Petrochemical
- Off-shore oil rigs
- Chemical process equipment
- Water and Waste applications
- Superheated steam lines on ships

SIZES & END CONNECTIONS

- 150# ANSI Flanged: 2" to 16"
- 300# ANSI Flanged: 2" to 16"

PRESSURE RATING

- 150# ANSI Flanged: 275 PSIG
- 300# ANSI Flanged: 740 PSIG

TEMPERATURE RANGE

-20°F to 475°F

MATERIALS

- Body:** Carbon steel or Stainless Steel
- Disc:** Carbon steel or Stainless Steel
- Hanger Arm:** Carbon steel or Stainless Steel
- Seat:** API 598 Trim 8 or 12
- Cover Seal:** Graphite



FLOW CAPACITIES

Size	C _v (gpm)
2"	120
2 1/2"	190
3"	285
4"	520
5"	745
6"	1,245
8"	2,285
10"	3,570
12"	5,340
14"	6,500
16"	8,620

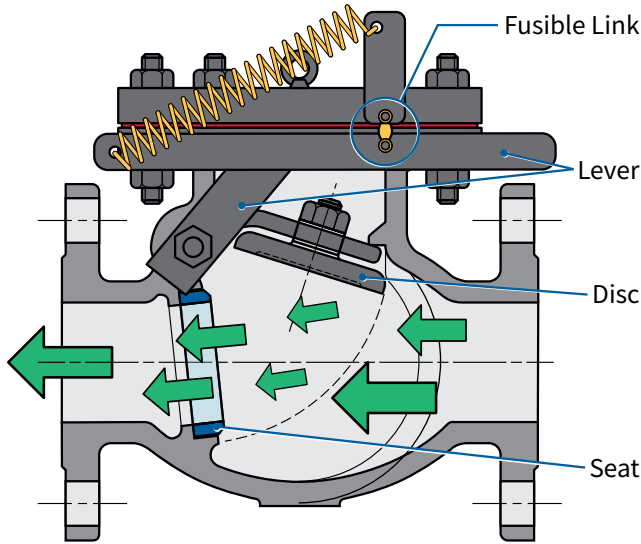


FSCV



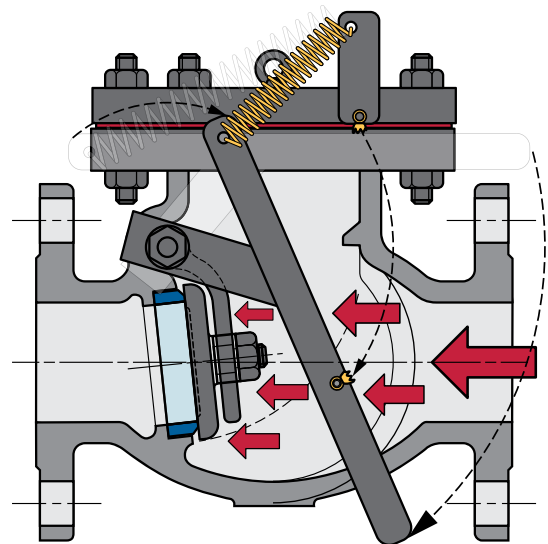
Swing Check Emergency Shut-off for Gas, Liquid & Vapor

OPERATION



Normal Operation

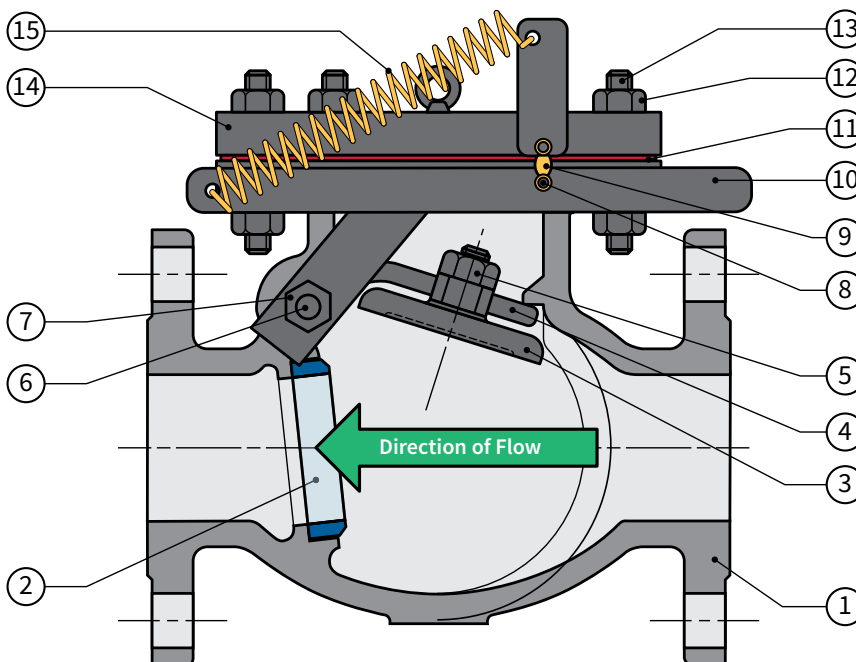
Disc is held up and away from the seat by the lever and fusible link



Emergency Shut-off

Fusible link melts and the spring pulls the lever which moves the disc into the closed position against the seat

MATERIALS OF CONSTRUCTION



Item	Part	
1	Valve Body	ASTM A216 Gr WCB
2	Seat Ring	ASTM A182 Gr F6
3	Disc	ASTM A182 Gr F6
4	Disc Arm	ASTM A216 Gr WCB
5	Disc Nut	ASTM A194 Gr 2H
6	Hinge Pin	ASTM A479 Gr 410
7	Lever Nut	ASTM A194 Gr 2H
8	Link Pin	SS 18-8
9	Fusible Link	Lead
10	Lever	Cold Rolled Steel
11	Cover Gasket	Graphite
12	Cover Stud Nut	ASTM A194 Gr 2H
13	Cover Stud	ASTM A193 Gr B7
14	Cover	ASTM A216 Gr WCB
15	Spring	Steel

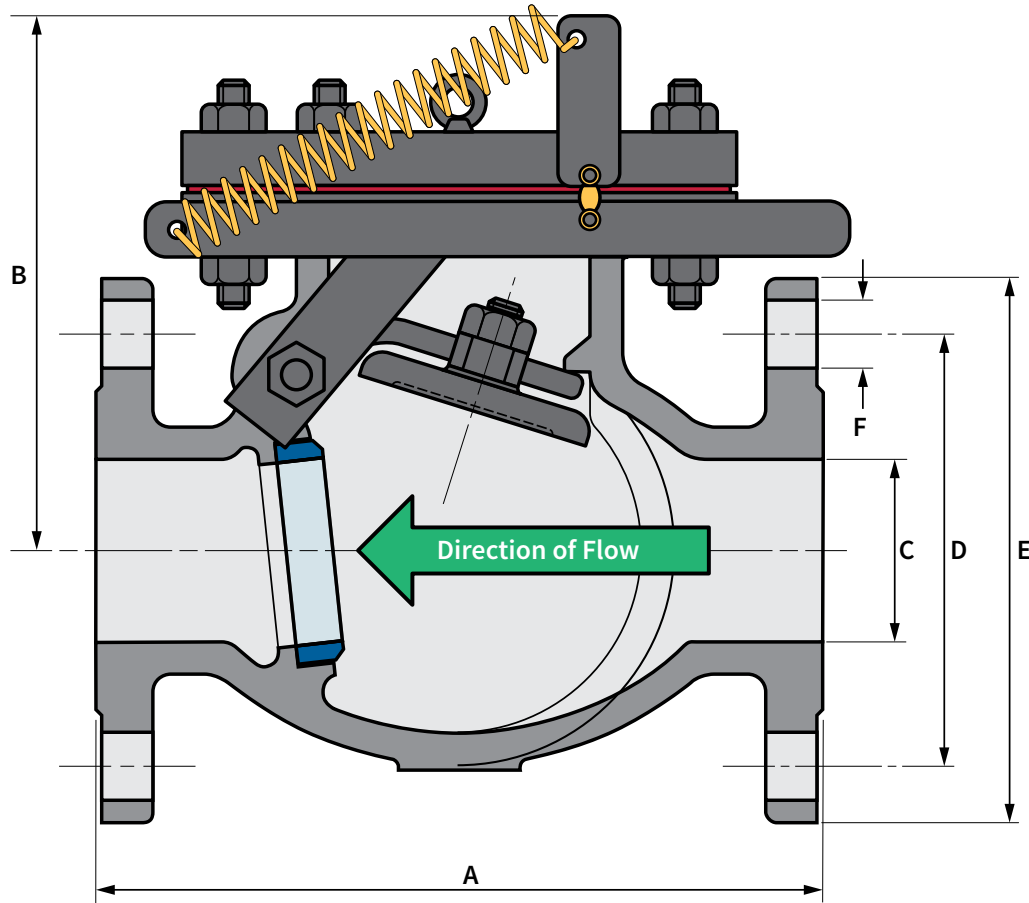


FSCV



Swing Check Emergency Shut-off for Gas, Liquid & Vapor

DIMENSIONS ANSI Class 150 (in inches)

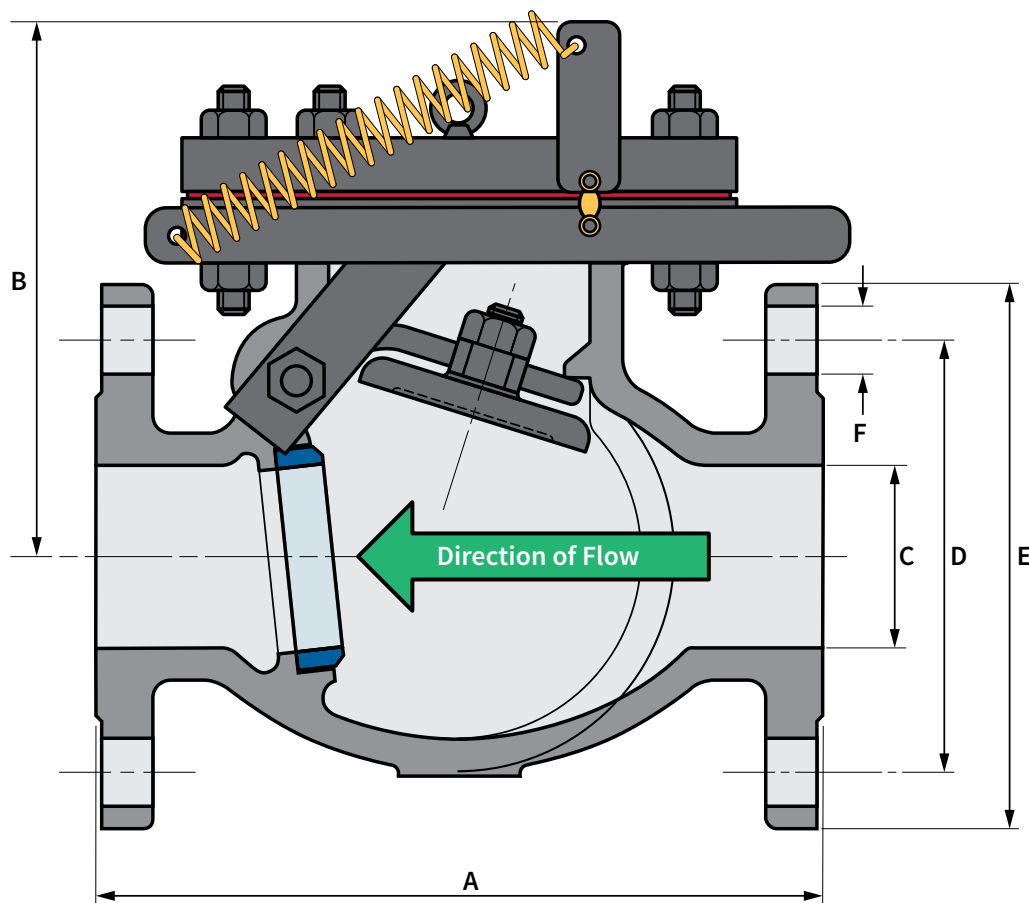


Size	A (Face to Face)	B (Height from Pipe Center)	C (Port I.D.)	D (Bolt Circle Ø)	E (Flange O.D.)	F (Bolt Hole Ø)	Number of Bolt Holes
2"	8.00	6.00	2.00	4.75	6.00	0.750	4
2 1/2"	8.50	6.00	2.50	5.50	7.00	0.750	4
3"	9.50	6.25	3.00	6.00	7.50	0.750	4
4"	11.50	7.62	4.00	7.50	9.00	0.750	8
5"	13.00	7.62	5.00	8.50	10.00	0.875	8
6"	14.00	9.50	6.00	9.50	11.00	0.875	8
8"	19.50	11.50	8.00	11.75	13.50	0.875	8
10"	24.50	13.50	10.00	14.25	16.00	1.000	12
12"	27.50	15.00	12.50	17.00	19.00	1.000	12
14"	31.00	15.75	13.25	18.75	21.00	1.125	12
16"	34.00	17.25	15.25	21.25	23.50	1.125	16



FSCV Swing Check Emergency Shut-off for Gas, Liquid & Vapor

DIMENSIONS ANSI Class 300 (in inches)



Size	A (Face to Face)	B (Height from Pipe Center)	C (Port I.D.)	D (Bolt Circle Ø)	E (Flange O.D.)	F (Bolt Hole Ø)	Number of Bolt Holes
2"	10.50	6.00	2.00	5.00	6.50	0.750	8
2 1/2"	11.50	6.50	2.50	5.87	7.50	0.875	8
3"	12.50	7.00	3.00	6.62	8.25	0.875	8
4"	14.00	7.32	4.00	7.87	10.00	0.875	8
5"	15.70	9.17	5.00	9.25	11.00	0.875	8
6"	17.50	10.32	6.00	10.62	12.50	0.875	12
8"	21.00	12.25	8.00	13.00	15.00	1.00	12
10"	24.50	14.00	10.00	15.25	17.50	1.12	16
12"	28.00	15.47	12.50	17.75	20.50	1.25	16



FSCV Swing Check Emergency Shut-off for Gas, Liquid & Vapor

MODELS AVAILABLE

FBPSL

Basic

Spring Assisted Closure with Fusible Link Only



FCPSL

Pneumatic Release

Basic PLUS Pneumatic Cylinder for Trigger



FMPSL

Electric Release

Basic PLUS Electro-Magnetic Trigger



REPLACEMENT LINKS



Trigger Temperatures Available:

- 135°F
- 165°F (standard)
- 212°F
- 280°F
- 360°F

Call **1-910-738-8904** for Pricing and Availability of Replacement Links



FSCV



Swing Check Emergency Shut-off for Gas, Liquid & Vapor

ORDERING INFORMATION

FSCV - 0200 - BPSL - 150 - C - 08 - 165F

Size	Trigger Type	Flange Class	Body Material	Trim Material	Trim Material
Size: _____					
0200 = 2"	0800 = 8"				
0250 = 2 1/2"	1000 = 10"				
0300 = 3"	1200 = 12"				
0400 = 4"	1400 = 14"				
0500 = 5"	1600 = 16"				
0600 = 6"	*Call for Larger Sizes				
Type & Remote Triggering: _____					
BPSL = Basic Spring Assisted Closure with Fusible Link Trigger CPSL = Spring Assist Closure w/ Fusible Link Trigger PLUS Pneumatic Cylinder Remote Trigger MPSL = Spring Assist Closure w/ Fusible Link Trigger PLUS Electro-magnetic Remote Trigger					
ANSI Flange Class (to ANSI B16.5): _____					
150# = ANSI Class 150# 300# = ANSI Class 300#					
Body Material: _____					
C = Carbon Steel (ASTM A216 Gr WCB) S = Stainless Steel					
Trim (Seat Ring) Material: _____					
08 = API Trim 8 12 = API Trim 12					
Trigger Temperature of Fusible Links: _____					
135F = 135°F 165F = 165°F (standard) 212F = 212°F 280F = 280°F 360F = 360°F					

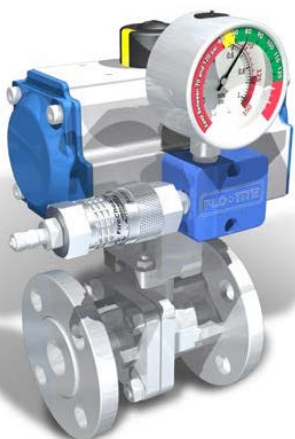
Ask Your Rep about Flo-Tite's Thermal Shut Off Valves.





FTSV Series

Flo-Tite's Thermal Shut Off Valves



The **FTSV** series Thermal Shut-off valves combine a fire-safe ball or butterfly valve with a pneumatic actuator and the **FM approved FireChek®** valve to form a dedicated stand-alone thermal shut-off valve that will close (or open) at a given temperature (165° F standard). This alternative to fusible link valves can be tested and reset without the need to replace any hardware.

The valve is held open by charging the actuator through a Schrader (check) valve. There is a clearly labeled gauge to indicate the proper pressure range to maintain. **FTSV's** have passed both Mil-std-810G humidity vibration testing procedures through an independent third party. Each **FTSV** assembly is also individually tested by a qualified technician in our ISO certified facility after assembly.

The FTSV has passed the 13,000 mile vibration test and the 5 year humidity test.

All valves are Fire Safe Tested & certified to API 607
No air supply or electricity needed for the FTSV

CRITICAL COMPONENTS

1) Fire-Safe Valve

Tri-Pro HPF Series

High Performance Series



The Tri-Pro and HP Series are one example of Fire Safe Valves Flo-Tite offers. Choose a Fire Safe ball or butterfly valve. All valves are equipped with special seats and seals to attain the API 607 4, 5 or 7th edition Fire-Safe rating. All valves are available in carbon or stainless steel.

Ball Valves

NPT: 1/4" to 4"

Socket Weld: 1/4" to 4"

150# ANSI RF Flange: 1/2" to 8"

300# ANSI RF Flange: 1/2" to 10"

600# ANSI RF Flange:

Butterfly Valves

150#,300#, 600#,900# ANSI Flange for Lug & Wafer models: 2" to 24"

visit flotite.com web page for details

2) Spring Return Actuator Air-Con Actuator



Air-Con C Series

These actuators are sized by our engineers specifically for thermal shutoff functionality. Actuators accept 70-125 psi and springs have a generous safety factor included to ensure closure even if the break torque is increased due to the valve not being actuated for a long period of time. These actuators were selected because they are rugged and economical and they have the ISO 5211 and NAMUR mounting patterns. The FTSV thermal shutoff module directly mounts to the NAMUR pad.

visit airconactuators.com for details

3) FM Approved FireChek®



Inline 3-way Thermal Shut-off

The revolutionary FireChek valve is what provides the functionality of the FTSV module. It uses a patented shape memory spring that makes it expand at the designed trigger (165° F) temperature. Air can flow through the valve in one direction to enter the actuator during normal temperatures. After the valve is triggered by excessive heat, it self-actuates and vents the actuator allowing the springs to close the ball or butterfly valve.

Only FM approved using AirCon Actuators.

Notes: FTSV Package Includes: FTSV Module, 165F FM approved Firechek thermal valve, Visual Liquid Filled Guage, O-rings and Bolts for Namur mounting. Fully Assembled and Tested. Instruction manual for installation and operation. Weight: 1.00 lbs. each



List Price: \$2,955

Mounted Price: \$3,150



Large Selection of Quarter Turn Valve Actuators



PRO-TORQ

Electric actuators up to 40,500 In-lbs of torque. Explosion proof option.



PNEUMATIC ACTUATORS

World's largest sized rack and pinion pneumatic actuators.



KOMPACT 4

Compact design where physical space is a concern.



AUTOMATOR DIAPHRAGM ACTUATOR

Spring-Diaphragm actuator designed & developed for valves that require precise control.



SCOTCH YOKE ACTUATOR

Ideal for larger butterfly or ball valves.



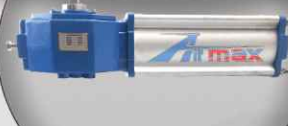
SPECIAL STROKE ACTUATORS

Ideal for control and Multi-Port Valves.



INOX SERIES

Stainless Steel and Nickel Infused Body Options
Ideal for washdown services
Double Acting or Spring Return.



AIRMAX PISTON ACTUATOR

Ideal for control valves
Double Acting or Spring Return.

AirCon's products are used in almost every energy related industry, including oil and gas production, oil and gas transmission, and petroleum refining.

Other markets include chemical, petrochemical, pulp and paper, food and beverage, and water systems.



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www.airconinc.com**