



# Emergency Shutoff Valves





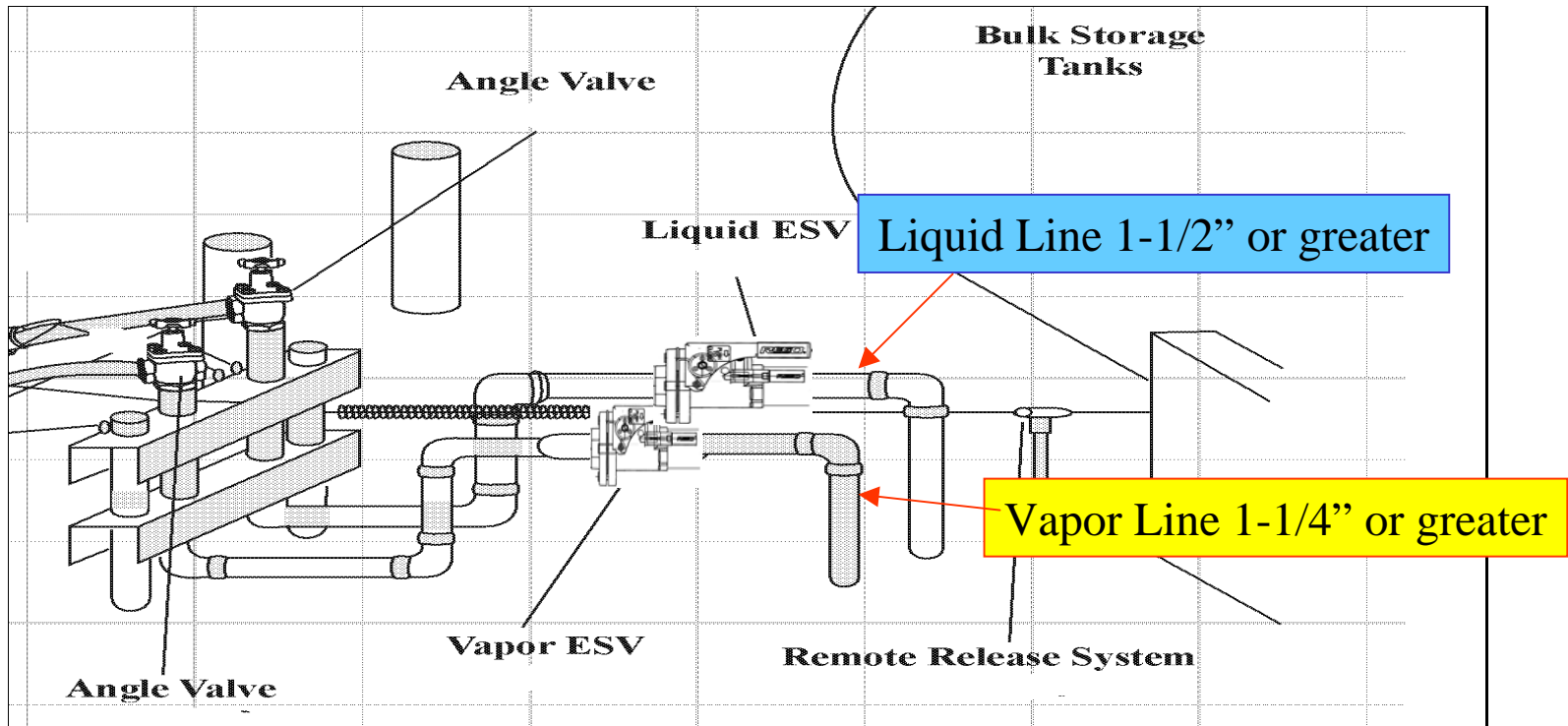
**Emergency Shutoff Valve (ESV) is required to have the following features(5.12.4 NFPA 58-2008 edition):**

- They must be approved (acceptable to the authority having jurisdiction (UL listing as a ESV makes it acceptable)**
- Automatic shutoff through thermal actuation (250 degrees F.)**
- Manual shutoff from a remote location (cable or pneumatic).**
- Manual shutoff at the installation (either with the handle, cable, or pneumatic)**



Container storage systems with an aggregate capacity greater than 4,000 gallons are required to have ESV installed when the liquid and vapor lines are (6.12.1 NFPA 58-208 edition):

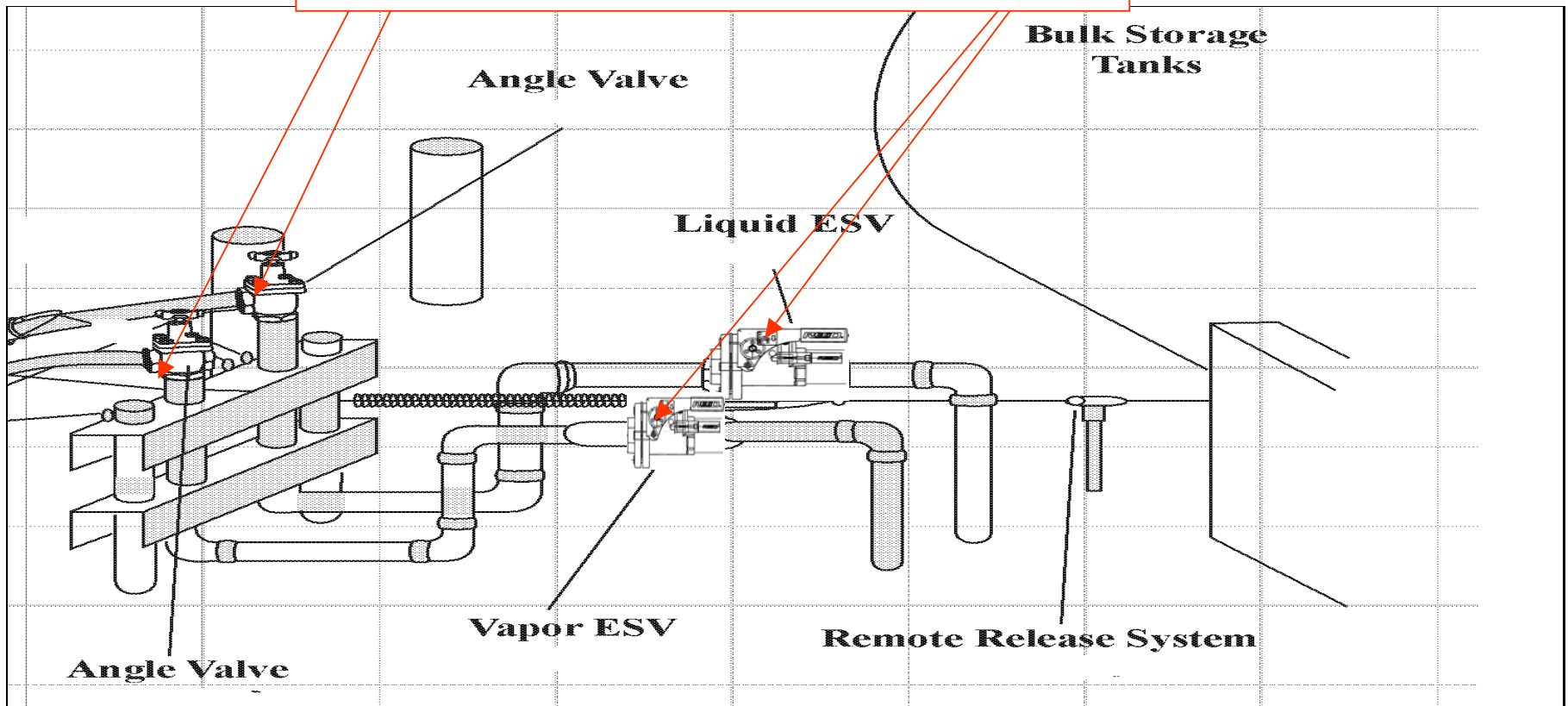
- Liquid lines 1-1/2" or larger
- Vapor lines 1-1/4" or larger





Container storage systems with an aggregate capacity greater than 4,000 gallons ESV is required be installed within 20 feet of the nearest end of the hose connection (6.12.2 NFPA 58-2008 edition):

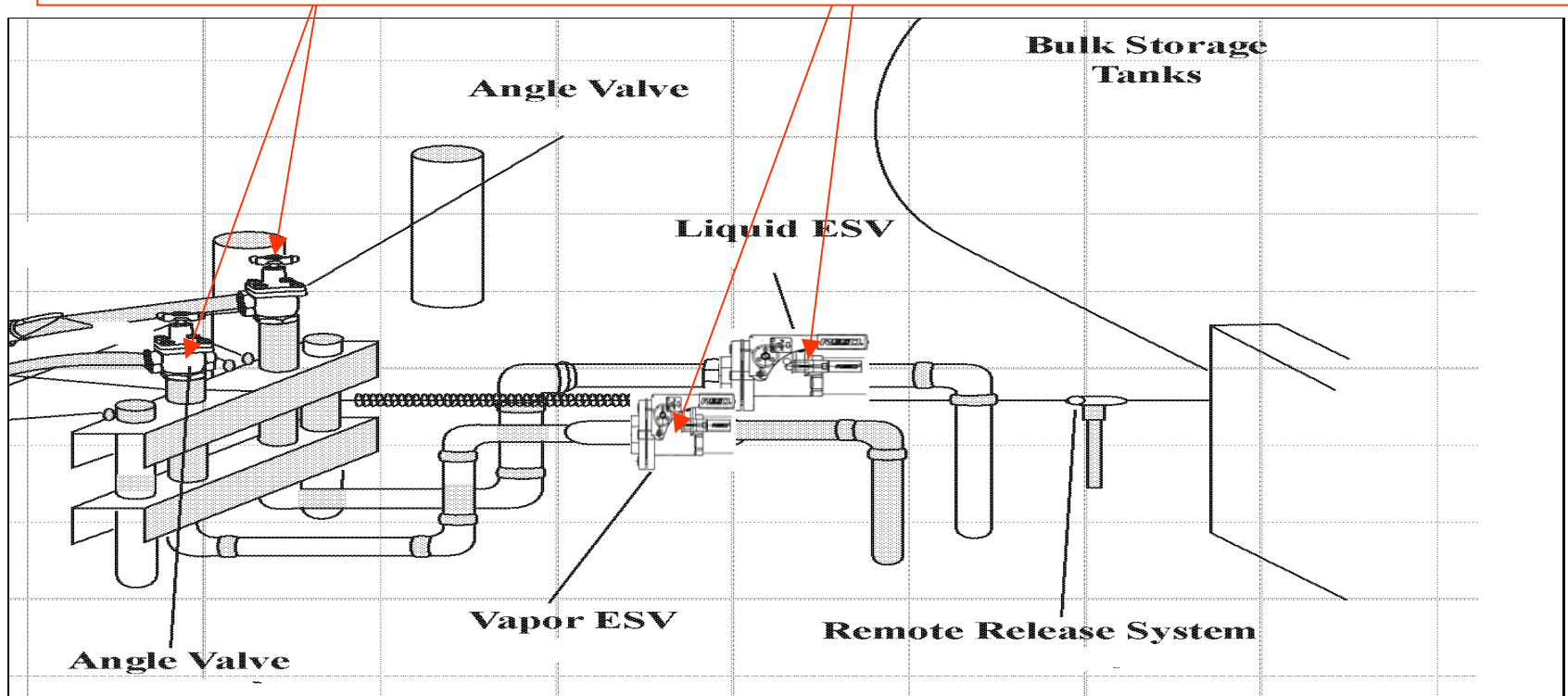
20 feet Maximum from ESV to end of hose





Container storage systems with an aggregate capacity greater than 4,000 gallons ESV thermal element is required to be installed within 5 feet of the nearest hose connection (6.12.6 NFPA 58-208 edition):

**5 feet maximum length** from ESV thermal element to end of hose  
If the ESV thermal element is farther than 5 feet, a remote or supplemental thermal element can be used.

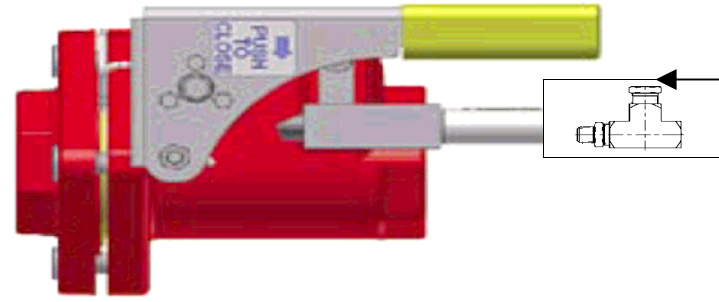




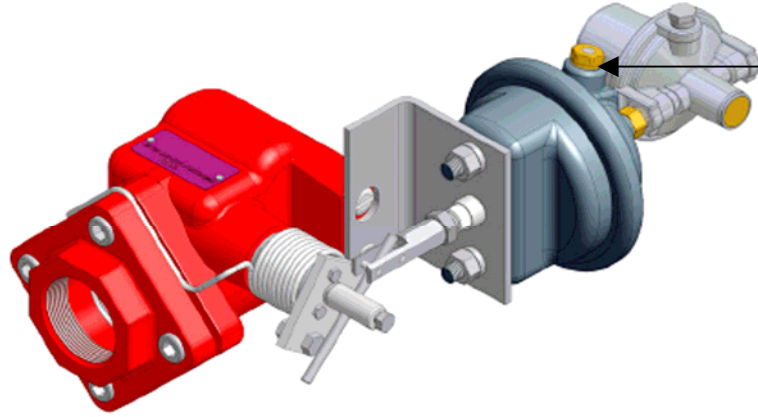
*Thermal Elements for 6010/6016/6024*



Thermal Fuse  
Part Of Cable Release



Thermal Fuse  
For 6016-60D

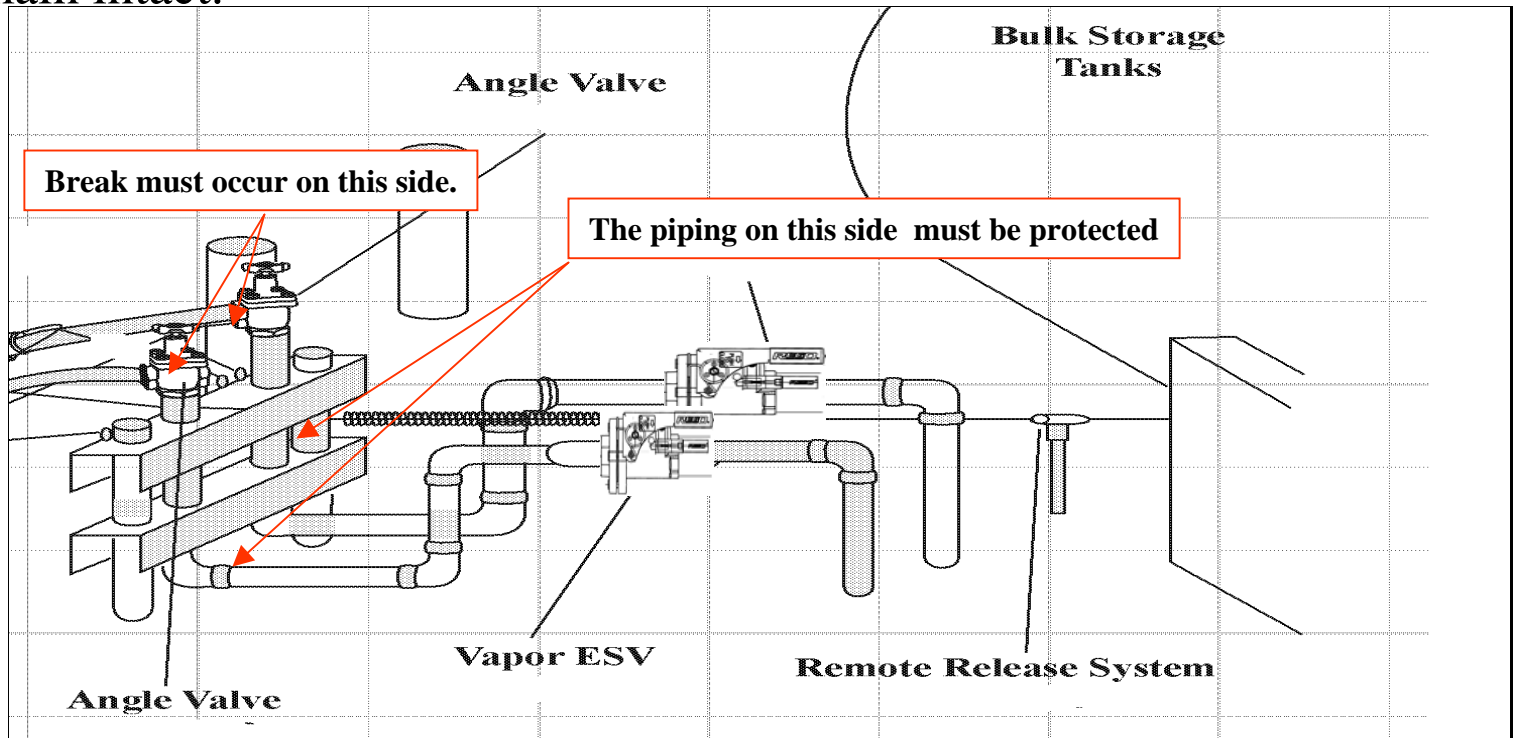


Thermal Fuse  
For 6016-60C



Container storage systems with an aggregate capacity greater than 4,000 gallons are required to have ESV installed on the liquid and vapor lines where (6.12.8 NFPA 58-208 edition):

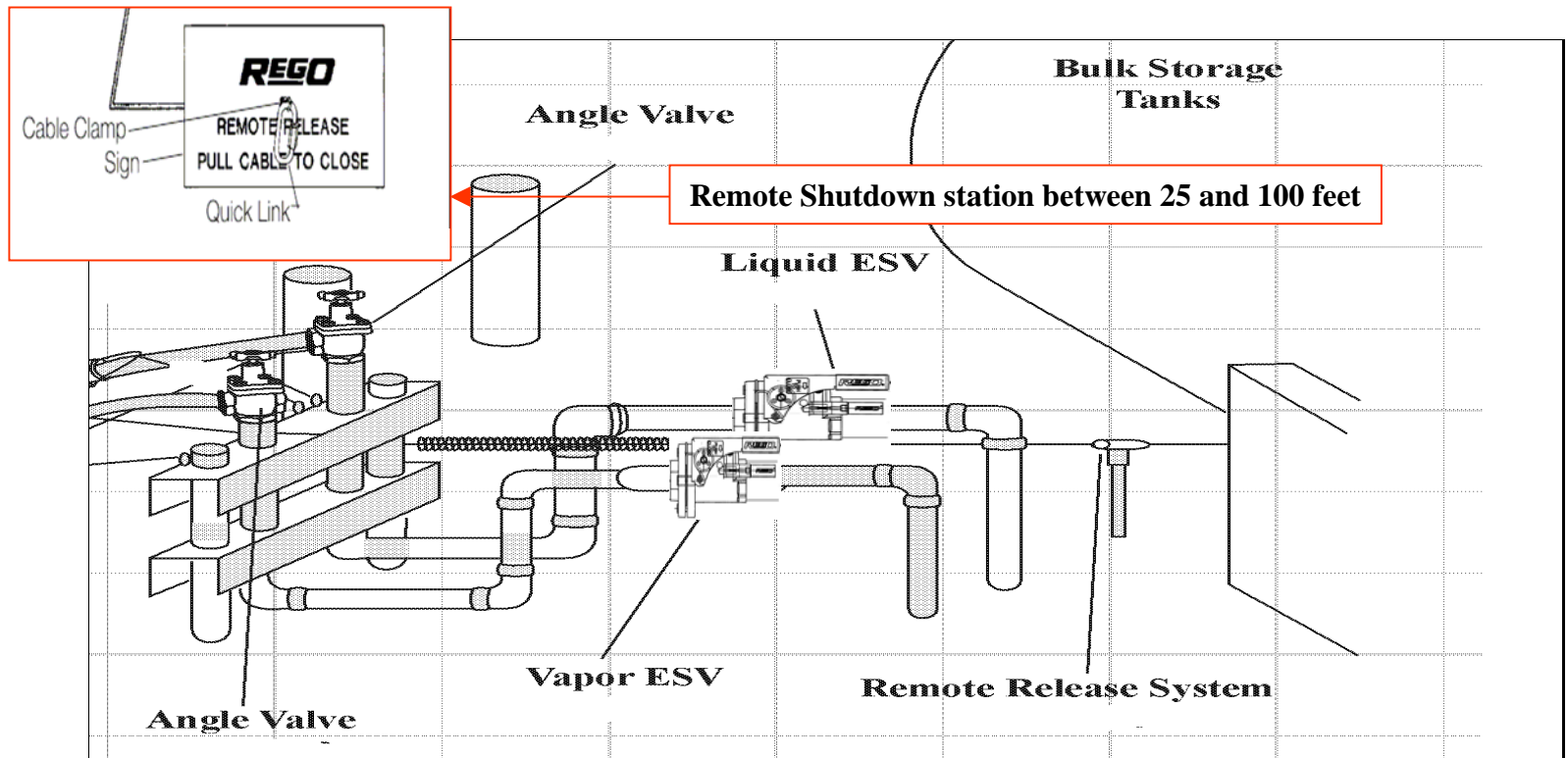
ESV must be installed so that any break resulting from a pull will occur on the hose or swivel type piping side of connection and the plant side will remain intact.





Container storage systems with an aggregate capacity greater than 4,000 gallons are required to have ESV installed on the liquid and vapor lines where (6.12.10 NFPA 58-208 edition):

ESV must have at least one clearly identified accessible manually operated remote shutdown not less than 25 feet or more than 100 feet.



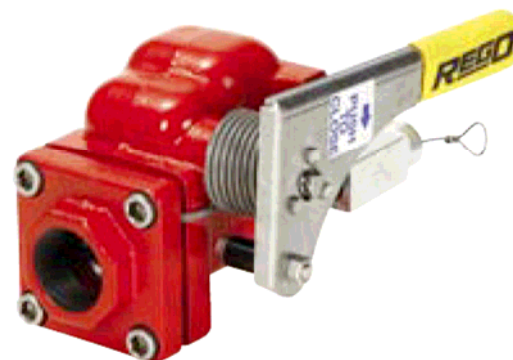


# 6010 & AA6010 Emergency Shutoff Valves

## Features

Meets NFPA 58 and UL requirements

- Fusible Element is located in the thermal fuse assembly, which acts at the latch open and close trigger. When exposed to fire, the element melts at 212 degrees F. allowing the shaft to return to the closed position.
- Valve can be opened by use of operating lever, if a pneumatic actuator is used it will open with the actuator.
- Valve can be closed by remote cable or pneumatic actuator.
- Valve can be closed by simply pushing the operating lever down; it is not necessary to trip the close trigger.



**6010/AA6010**

## Ordering Information

Part Number	For Use With	Inlet and Outlet Connections	Accessories		Liquid Flow Capacity @ 10 PSIG Pressure Drop (GPM)
			Remote Pneumatic Close	Remote Pneumatic Open/Close	
6010	LP-Gas	1¼" F. NPT	6016-60D	6016-60C	259
AA6010	NH <sub>3</sub>	1¼" F. NPT			233

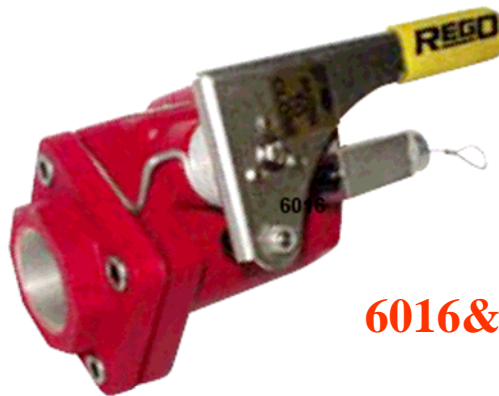


## 6016 & AA6016- 6024& AA6024 Emergency Shutoff Valves

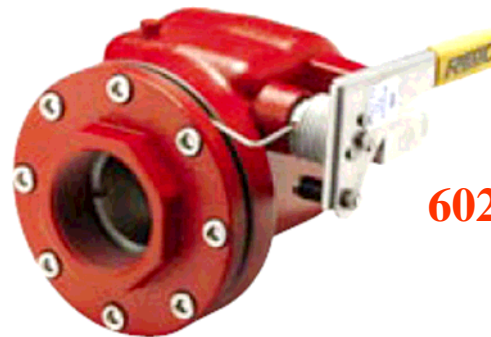
### Features

Meets NFPA 58 and UL requirements

- Fusible Element is located in the thermal fuse assembly, which acts at the latch open and close trigger. When exposed to fire, the element melts at 212 degrees F. allowing the shaft to return to the closed position.
- Valve can be opened by use of operating lever, if a pneumatic actuator is used it will open with the actuator.
- Valve can be closed by remote cable or pneumatic actuator.
- Valve can be closed by simply pushing the operating lever down; it is not necessary to trip the close trigger.



**6016& AA6016**



**6024& AA6024**

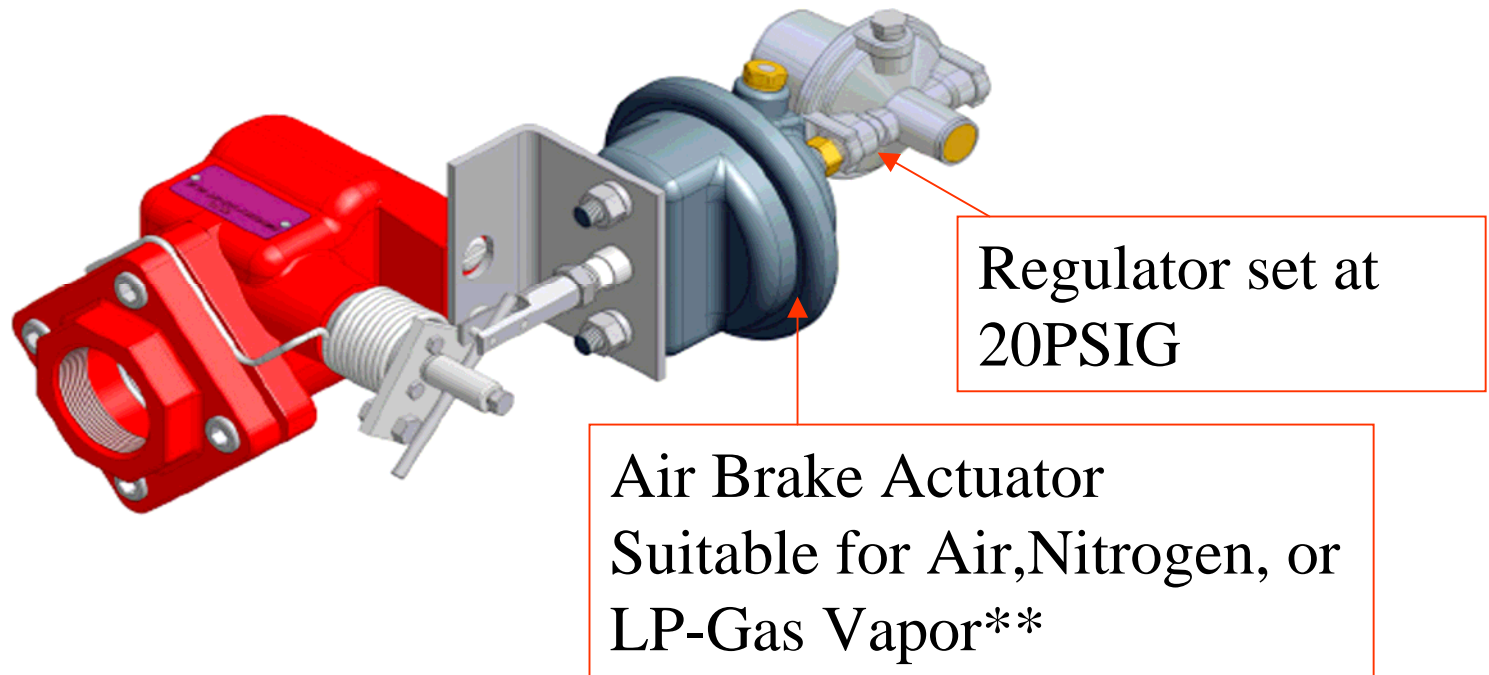
### Ordering Information

Part Number	For Use With:	Inlet and Outlet Connections	Liquid Flow Capacity at 10 PSIG Drop (GPM)
6016	LP-Gas	2" F-NPT	711 (LP-Gas)
AA6016	NH <sub>3</sub>	2" F-NPT	640 (NH <sub>3</sub> )
6024	LP-Gas	3" F-NPT	1325 (LP-Gas)
AA6024	NH <sub>3</sub>	3" F-NPT	1173 (NH <sub>3</sub> )



Accessories for 6010/6016/6024 ESV's

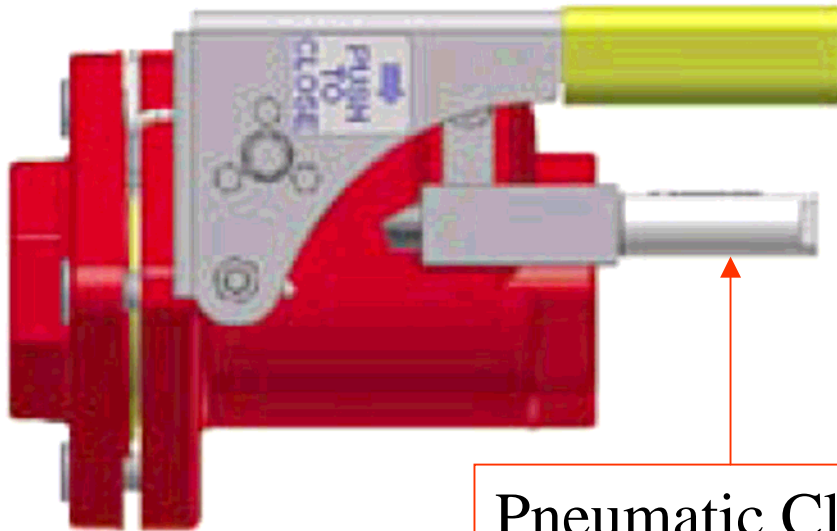
6016-60C Pneumatic Actuator Remote Open/Close





Accessories for 6010/6016/6024 ESV's

6016-60D Pneumatic Close Actuator/ Manual (Lever) Open



Pneumatic Close Cylinder Actuator  
Suitable for Air, Nitrogen, or LP-  
Gas Vapor\*\*



## \*\*NFPA 58 2008 Edition

6.10 Remote Shutoff Actuation. Where LP-Gas vapor is used as a pressure source for activating the remote shutoff mechanisms of internal valves and emergency shutoff valves the following shall apply:

- (1) Actuators and pressure supply line components shall be compatible with LP-Gas vapor.
- (2) Supply line piping materials shall be limited to maximum of 3/8 in. (9.0 mm) outside diameter.
- (3) \* Supply pressure shall be controlled to prevent condensation of LP-Gas vapor.
- (4) The LP-gas supply maximum flow rate to the system shall not exceed that from a No.54 drill orifice

**\*A.6.10 (3) If LP-Gas vapor is supplied at container pressure and there is no flow, an ambient temperature drop below the container liquid temperature will result in condensation of the LP-Gas vapor.**

If the system is activated, the presence of liquid could result in a delay or malfunction of the system operation.



## Competitive Information

Part Number	Size	Flow GPM Propane @ 10 PSID	Part Number	Size	Flow GPM Propane @ 10 PSID
Fisher N550-10	1-1/4" F.NPT	<u>158</u>	RegO 6010	1-1/4" F.NPT	<u>259</u> <u>+64%</u>
Fisher N550-16	2" F.NPT	<u>237</u>	RegO 6016	2" F.NPT	<u>711</u> <u>+200%</u>
Fisher N550-24	3" F-NPT	<u>600</u>	RegO 6024	3" F-NPT	<u>1,325</u> <u>+120%</u>