

Emergency Shutoff Valve



N550



P327D



P539



P327C

Snappy Joe® Emergency Shutoff Valves for Bulk Plants

Snappy Joe® Type N550 Emergency Shutoff Valves (ESVs) are designed for in-line installations, usually near a bulkhead. The valves provide a means of shutting off gas in the event of a hose rupture or piping break at the transfer area to avoid a large scale loss of LP-Gas or NH₃.

The valves can be manually opened and closed at the installed location or closed remotely by either cable or air. A remote operating actuator is also available.

High Flow Capacity - The main poppet moves completely out of the flow stream for extremely low restriction-to-flow.

Operational Ease - Moving the operating lever to the vertical position opens the valve, making it simple to tell if the unit is open or closed. A pilot valve in the poppet opens as the lever is moved upward to pressurize the hose. Once equalized, the poppet moves quickly to the open position.

The valve is closed by simply pushing the lever down without first having to trip a latch. The operating lever is easily reached from across a bulkhead. All sizes look similar and operate exactly the same, an important point in an emergency situation.

Fusible Element - The fusible element is located at the hub of the operating lever and stub shaft. When exposed to fire, the element melts allowing the stub shaft to turn. The poppet then moves to the closed position, even if the operating lever has been wired open.

Rugged Construction - Heavy duty construction makes Snappy Joe® ESVs suitable for use as a "working" shutoff valve for the transfer area, even under frequent use. The internal closing spring is protected from the elements and tampering. All seats and seals use metal back-up seals for extended fire resistance. The valves are rated 400 WOG.

Ease of Service - Serviceable without removal from the pipeline. Parts that wear are external and can be changed out in a matter of minutes. The packing can be changed with the valve in-line.

Cable Release - Standard valves are fitted with a release mechanism for cable attachment. A cable connected to the wire loop allows closure from a safe remote location, such as the bulk plant entrance.

While the ordinary cable can be used, the Type PI64B release assembly is available. This assembly uses 50' of cable housing which does not require elaborate guiding like uncovered cables.

Pneumatic Operation - Remote pneumatic closure is available with Type P327D pneumatic release block. Pressure on the P327D (regulated air supply of 30 to 70 psig) allows the valve to be latched in the open position with manual closure possible at the valve. Loss of pressure permits the ESV to close.

Opening and closing of Snappy Joe® ESVs from a remote location can be done by using Type P327C air cylinder. The cylinder opens the valve when around 30 to 70 psig air or nitrogen pressure is applied. Operating Temperature Range = -65°F to 225°F. Upon loss of pressure, the valve closes, assisted by the spring in the pneumatic cylinder. All necessary installation hardware for the P327C is furnished.

Opening and closing of Snappy Joe® ESVs from the valve can be also done by using Type P539 pneumatic actuator, or remotely with the use of a pneumatic 3-way valve (part number 3330). The actuator opens the valve when pressure is applied. Upon loss of pressure the N550 closes, assisted by the spring in the pneumatic actuator. Recommended operating pressure for the actuator is 20 to 40 psig.

Emergency Shutoff Valves

Type Number	Body Size	Flow in GPM Propane		Accessories
		1 PSID	2 PSID	
N550-10	1 1/4" FNPT	50	75	PI64B Cable Release P327C Air Cylinder P327D Air Cylinder P539 Pneumatic Actuator
N550-16	2" FNPT	75	115	
N550-24	3" FNPT	190	275	

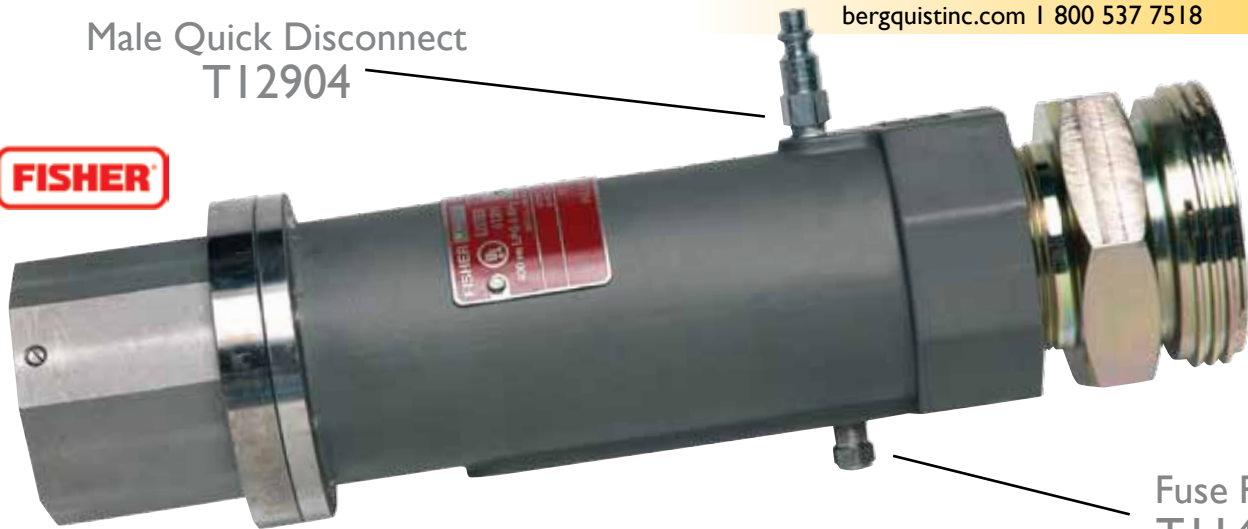
Repair Parts for N550's

Part	Description
P551	External closing spring and latch (retro fit kit)
T13090	Packing kit
T13500	Fuse link assembly
T20714	Handle assembly with bolt, nut, roller, handgrip
T12963	Latch assembly

Railroad Tank Car Emergency Shutoff Valve

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Male Quick Disconnect
T12904



N562-26

Fuse Plug
T11403



Female Quick
Disconnect
T12906

Snappy Joe® Emergency Shutoff Valves for Railroad Tank Cars

Snappy Joe® Type N562 Emergency Shutoff Valves (ESVs) are designed for railcar protection and attached to the shutoff valves on railroad tank cars. Typically three N562s are used - two on the liquid lines and one on the vapor line. NFPA 58 (2001 Edition) regulations call for ESV protection on both sides of the transfer hose or piping.

Pneumatically operated, the valve is opened and closed by means of a standard quick-disconnect coupling (furnished). Approximately 20 to 60 psig is needed to open the valve, depending upon tank car pressure. Remote closure from one or more points, such as the unloading riser, is accomplished by exhausting pressure from the valve's piston chamber with a pneumatic control valve.

Application Flexibility/Field Serviceability -

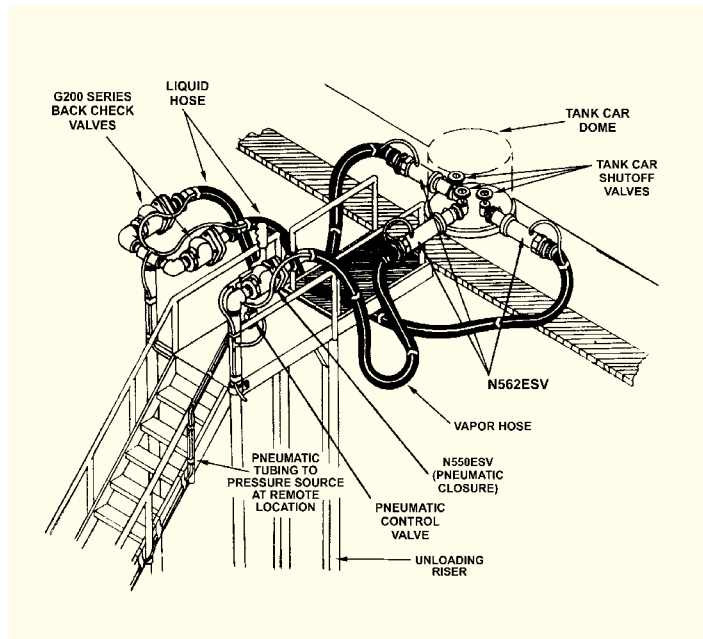
The N562 has a female coupling. Nipple lengths are field selectable based on specific application requirements i.e. the size of the tank dome opening. These field-installed nipples can be easily secured and replaced.

Wrenching Hex - A wrenching hex is built into the body and nipple preventing wear or damage when connecting or disconnecting. A 1/4" FNPT opening in the hex portion can be used to install a bleed valve.

Hardened Threads - The 2" FNPT threads on the nipple portion are of hardened stainless steel to reduce wear from repeated use.

Excess Flow Valve - The spring has a closing flow of 200 GPM propane at 13 psid.

Dual Service - With all internal parts either stainless steel or plated steel, the valve can be used on NH₃ service as well as LP-Gas



N562 Emergency Shutoff Valves

Type Number	Shutoff Valve Connection	Hose Connection
N562-16	2" FNPT	2" FNPT
N562-18		2 1/4" Male Acme
N562-26		3 1/4" Male Acme