



Spring Brake & Emergency Valves Quick Reference



Spring Brake Valves

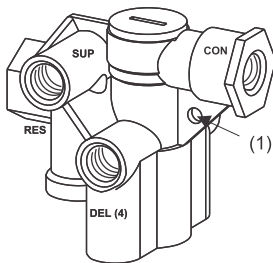
Spring brake valves are primarily designed to release the springs on dual air chamber brakes and fill the reservoir. All include supply line protection, anti-compounding support, and a delivery pressure holding feature. Each have four 3/8" delivery ports, a 3/8" supply port, a 3/8" control port and at least one 1/2" reservoir port.

Fill Priority indicates how the valve directs flow when the reservoir is empty. 'Spring' means the spring chambers get 100% of the flow up to about 80 psi. 'Service' means the reservoir shares the flow with the spring chambers.

Relay Fill feature uses reservoir pressure to dramatically reduce the brake's release time.

Premium Four Port Spring Brake Valves

These small body premium valves include the Relay Fill feature.

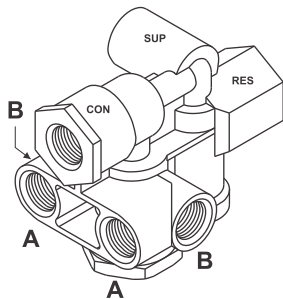


(1) Hole indicates the valve is a 110800

Part Number	Fill Priority
110800	Spring
110700	Service

Value Priced Four Port Spring Brake Valves

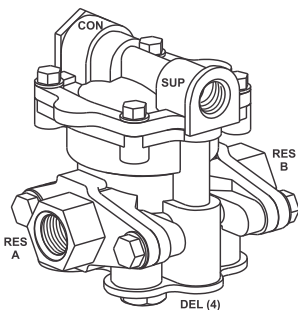
These are small body spring brake priority valves.



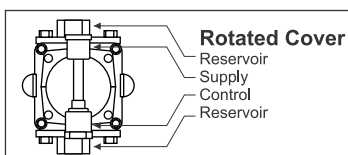
Part Number	Plugged Ports
110500	None

Protected Reservoir Four Port Spring Brake Valves

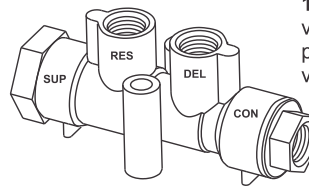
These large body valves have two reservoir ports and include the Relay Fill feature.



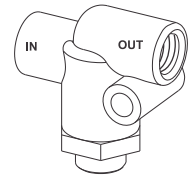
Part Number	Reservoir		Rotated Cover
	A	B	
110170	1/2"	1/2"	No
110171	1/2"	3/8"	Yes



Emergency Control Valves



110376 is a 3/8" ported emergency control valve. It is often used to add emergency & park brake features to relay valves on vehicles that do not use spring brakes.

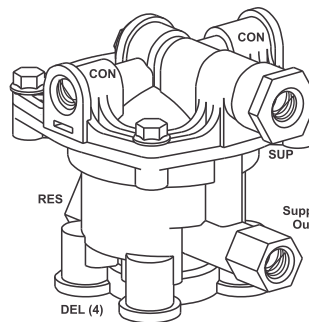


Always aim vent downward

110257 is a specialized 3/8" ported, emergency pressure protection valve. It provides supply line protection when coupled with the 110376 or the 110338 valve. It should not replace or be replaced with conventional pressure protection valves.

Relay Emergency Valves

Relay emergency valves are used in brake systems with single chamber brake actuators. Each valve features a 3/4" reservoir port, four 3/8" delivery ports, two control and one supply port. Ratio valves produce a momentary pressure surge during harder than normal braking.



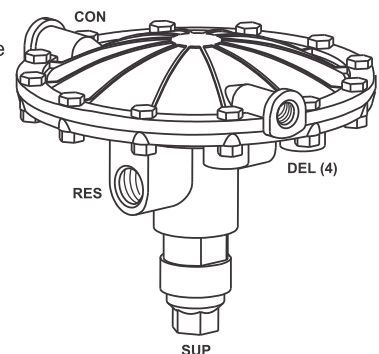
Charging Style			
Part Number	Con/Sup Ports	Ratio Valve	Supply Out
110205	3/8"	*Yes	No
110470	3/8"	No	No

*Ratio valves should not be used on dollies, steerable axles, & lift axles.

Relay Emergency Valves (Pre FMVSS 121 Regulations)

A charging style relay emergency valve used for single chamber brake actuators on US air brake systems prior to implementation of FMVSS 121. It features a 1.5 psi crack pressure, 1/2" reservoir port and 1/4" delivery, control, and supply ports.

A1000S Relay Emergency Valve



Abbotsford (604) 859-6731 Burnaby (604) 299-0681 Kamloops (250) 314-1000

Prince George (250) 563-9330 Surrey (604) 888-1944

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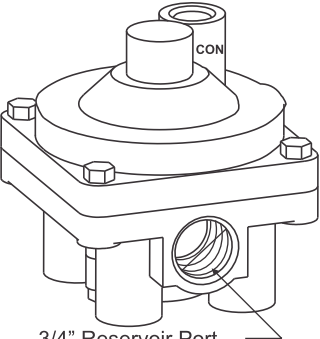
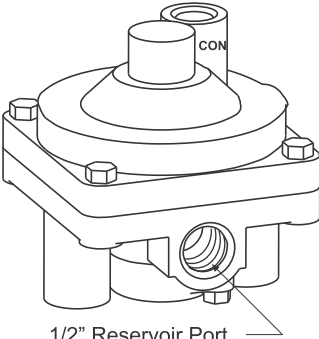


Service Brake Valves Quick Reference



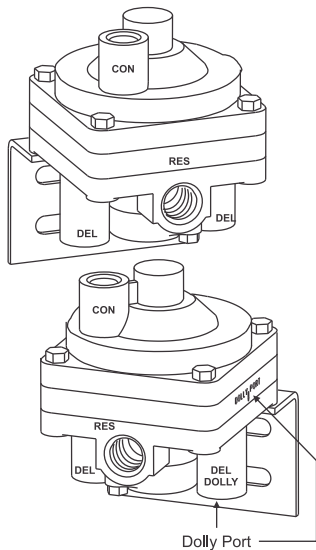
Two & Four Delivery Port Piston Style Valves

Piston style service relay valves with 3/8" delivery and control ports. Suitable for reservoir or frame mounting. No service parts are available.

4 Delivery Port Valves			2 Delivery Port Valves		
					
3/4" Reservoir Port			1/2" Reservoir Port		
Part Number	Crack Pressure	Mounting	Part Number	Crack Pressure	Mounting
110380	1.5 psi	Nipple	110360	1.5 psi	Nipple
110385	1.5 psi	Frame	110365	1.5 psi	Frame
110415	4.0 psi	Nipple	110410	4.0 psi	Nipple

Control Line Booster Valves

These "speed up" valves are primarily used on dollies, lead semi, and long trailers to accelerate the apply and release of the control line signal. They have two 3/8" delivery ports, one 1/2" reservoir port, a 3/8" control port and feature a zero pound crack pressure. Some are equipped with a reduced flow delivery port marked "Dolly" which improves brake balance on trailer trains.

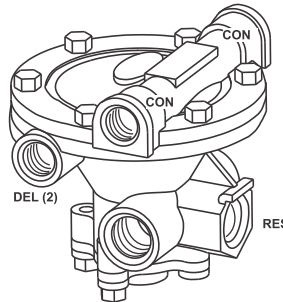


Part Number	Dolly Port	Mount	Check Valve
110570	Yes	(B)	None
110580	No	(B)	None

Mount Locations			
None	Below	Above	90 Degree
			

Two Delivery Port Diaphragm Style Valves

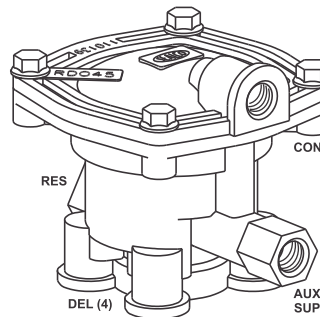
These rugged diaphragm valves are primarily used for single axle vehicle or lift axle applications. They are configured with a 1/2" reservoir port, two 3/8" control and two 3/8" delivery ports.



Part Number	Crack Pressure	Mounting
110197	4.0 psi	Nipple

Four Port Service Relay

Service relay valves with four 3/8" delivery ports, a 3/4" reservoir port and 3/8" auxiliary supply port (unless otherwise noted). Ratio valves produce a momentary pressure surge during harder than normal braking.



*Ratio Valves		
Part Number	Aux. Supply	Plug Unit (Crack Pressure)
110139	Yes	110143 (4.5)

*Ratio valves should not be used on dollies, steerable axles, & lift axles.



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 Prince George (250) 563-9330  Surrey (604) 888-1944

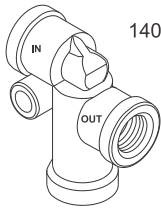
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Auxiliary System Valves Quick Reference

Set Pressure Protection Valves

These valves can be nipple or body mounted. The 140 series include an internal check valve.



140 Series

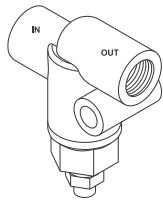
Part Number	In/Out Ports	Close *PSI	Repair Kit
140270	3/8"	60	140271
140280	3/8"	70	140281

*Nominal Closing Pressure

Always aim vents downward

Adjustable Pressure Protection Valves

These PPVs feature an adjustable closing pressure.



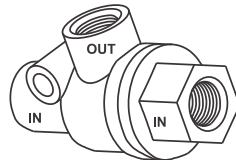
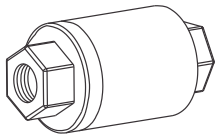
Always aim vent downward

Part Number	In/Out Ports	Factory *Set	Adjust Range
1300	3/8"	60	20-70
1300-45	3/8"	45	20-70
1300-80	3/8"	80	20-85

*Nominal Opening Pressure

Check Valves

Rugged all metal body check valves



*Bypass Check All Female

Part Number	Ports Size	Orifice Size
110183	1/4"	.028"

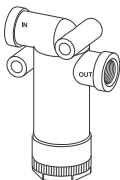
*Bypass check valves deliver full flow in one direction and metered flow (based upon orifice size) in the other.

Two Way Check All Female

Part Number	Inlet Port	Outlet Ports
320100	3/8"	3/8"

These should not be used in place of standard check valves.

System Filter



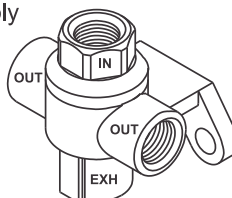
This supply line filter provides extra protection from contamination introduced through the gladhand.

2550 Supply Line Filter With 3/8" NPT Ports

Quick Release & Holding Valves

These valves will deliver and retain pressure until the supply pressure drops to less than half that of the delivery.

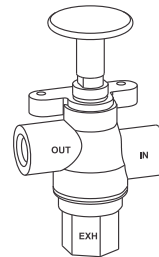
Part Number	Port Size
7800	1/4"



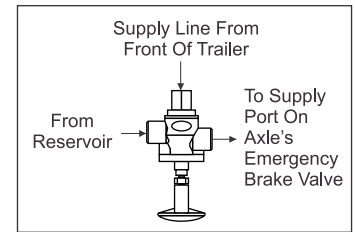
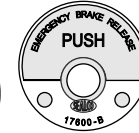
Control Valves Quick Reference

Park Brake Release Valves

Use to release parking brakes on trailers or dollies

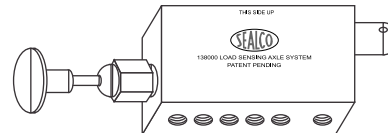


17600B
Includes Plate



Five Port & Suspension Valves

These valves are commonly used to raise and lower lift axles.



138000 LSAS MR

Automatically lowers lifted axles when a load is sensed.

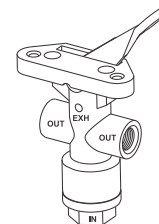
Lever Hand Control Valves

A versatile manually operated lever valve used in a wide variety of applications. Toggles side to side to open or close.

Valves With Plates & Mounting Screws



216050



Pressure Control Valves

Robust pressure regulators suitable for outdoor use. Each has a 1/4" inlet, a 1/4" outlet, and a 1/8" exhaust port.

Part Number	Minimum Delivery	Maximum Delivery
5400	Zero PSI	Inlet PSI

5400

