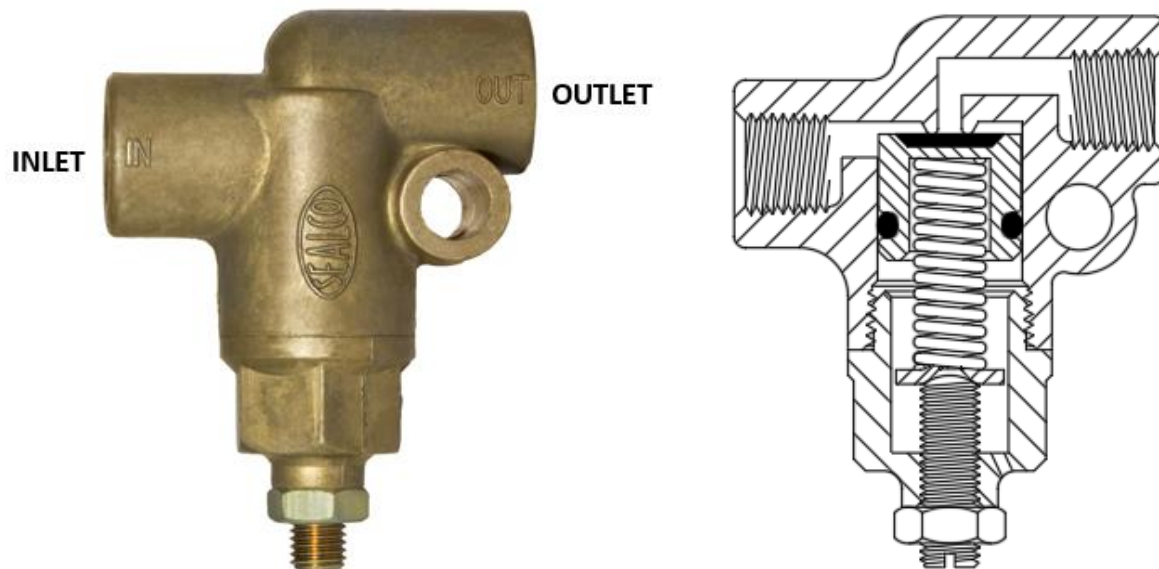




Pressure Protection Valves – Adjustable

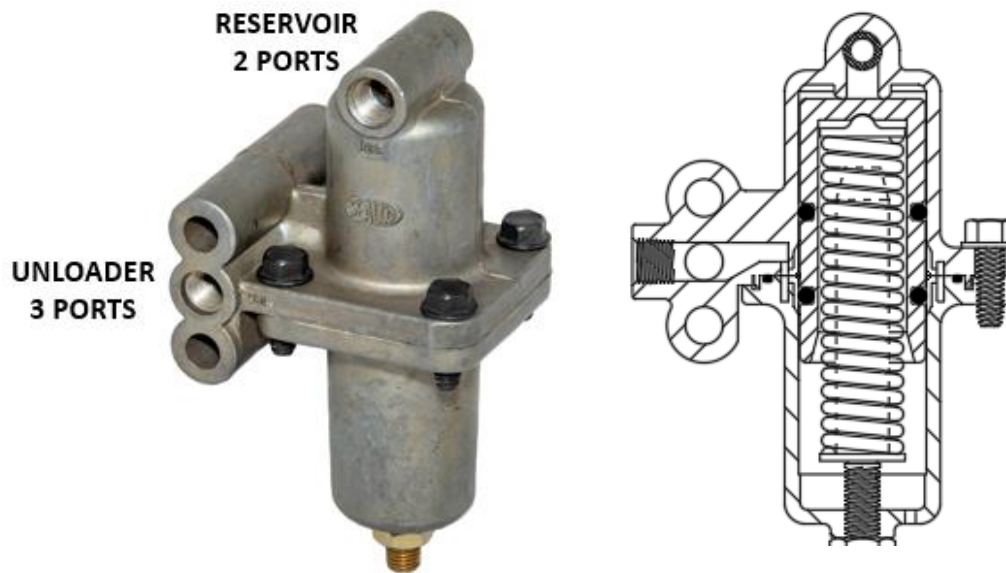


- Commonly used to protect & isolate the air supply in an air reservoir from any air operated component that is connected to it
- Valve opens at a factory set psi & allow air to flow through the Outlet port
- Valve closes at 5 psi below opening pressure indicated below
- Dimensions: Height 2.75" - Width 3.84" - Depth .81" • Approximate Weight: .53 lbs. (See [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange Guide](#)

PART NUMBER	PORT SIZES (NPT)		NOMINAL OPENING PRESSURE	ADJUSTABLE	
	INLET	OUTLET		MINIMUM	MAXIMUM
1300	1/4"	1/4"	60 psi	20 psi	70 psi
1300-05	1/4"	1/4"	10 psi	5 psi	20 psi
1300-35	1/4"	1/4"	35 psi	20 psi	70 psi
1300-45	1/4"	1/4"	45 psi	20 psi	70 psi
1300-80	1/4"	1/4"	80 psi	20 psi	85 psi
1300-80C	1/4"	1/4"	90 psi	20 psi	90 psi



Governor

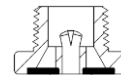
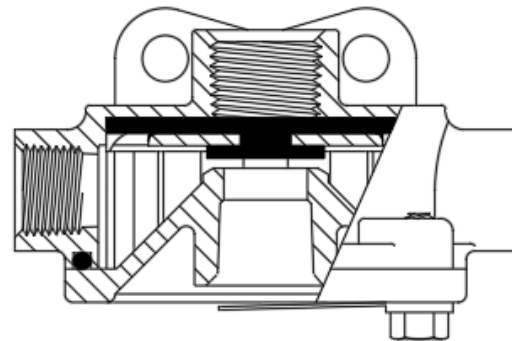
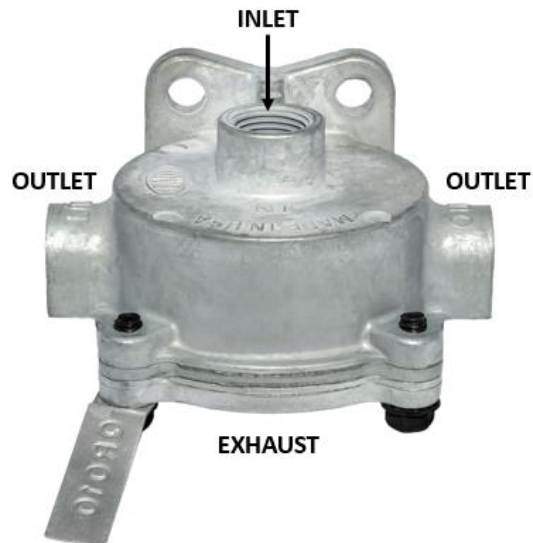


- Monitors the reservoir air pressure & instructs the air compressor when to activate & deactivate
- Cut out pressure is factory set at 120 psi
- Cut in pressure is factory set at 100 psi but is adjustable from 90 psi to 135 psi
- Dimensions: Height 4.75" - Width 2.13" - Depth 3.09" • Approximate Weight: 1.02 lbs.
- [Repair Kit 15-5](#)

PART NUMBER	PORT SIZES (NPT)	
	RESERVOIR (2)	UNLOADER (3)
1500	1/8"	1/8"



Quick Release Valves



110524 Exhaust Cap

- Commonly used to rapidly exhaust air from parking brake chambers, service brake chambers, air bags or the trailer supply line
- Heavy duty metal construction with rubber to metal bonded diaphragm for durability
- Dimensions: Height 3.00" - Width 4.56" - Depth 2.37" • Approximate Weight: 1.30 lbs. (see [Weight Chart](#))
- **REPAIR KITS** – See list of repair kits below
- [Competitive Part Interchange Guide](#)

PART NUMBER	PORT SIZES (NPT)			NOMINAL CRACK PRESSURE	REPAIR KIT
	INLET	OUTLET (2)	EXHAUST		
2000B 3/8	3/8"	1/4"	-	3-5 psi	20-5
2000B 1/2	1/2"	3/8"	-	3-5 psi	20-5
2000C 3/8	3/8"	1/4"	-	7-9 psi	20-5
2000C 1/2	1/2"	3/8"	-	7-9 psi	20-5
2000C-5	1/2"	3/8"	1/2"	7-9 psi	20-6
2000D 3/8	3/8"	1/4"	-	0-1 psi	20D-5
2000D 1/2	1/2"	3/8"	-	0-1 psi	20D-5
200000	1/4"	1/4"	-	0-1 psi	20D-5
200001	3/8"	3/8"	1/2"	0-1 psi	20D-5
200002	1/2"	3/8"	1/2"	0-1 psi	20D-5
200003	3/8"	1/4"	1/2"	0-1 psi	20D-5
200004	3/8"	3/8"	1/2"	0-1 psi	200135
200006	1/4"	1/4"	1/2"	0-1 psi	20D-5
200524	3/8"	3/8"	Exhaust Seal 110524	0-1 psi	20D-5



One-Way Check Valves

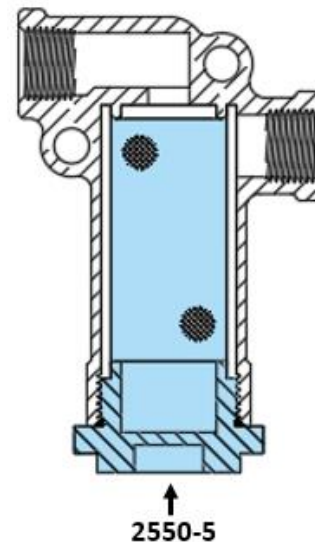


- Allows air to flow through valve in only one direction from inlet to outlet
- When loss of inlet air pressure occurs, prevents air from flowing back through valve
- Heavy duty metal construction with rubber to metal bonded shuttle for durability
- Dimensions: Height 3.25" - Width 1.50" - Depth 1.50" • Approximate Weight: .63 lbs. (See [Weight Chart](#))
- [Competitive Part Interchange](#)

PART NUMBER	PORT SIZES (NPT)	
	INLET	OUTLET
2200 1/4	1/4"	1/4"
2200 1/2	1/2"	1/2"
2200 3/4	3/4"	3/4"



Supply Line Filter



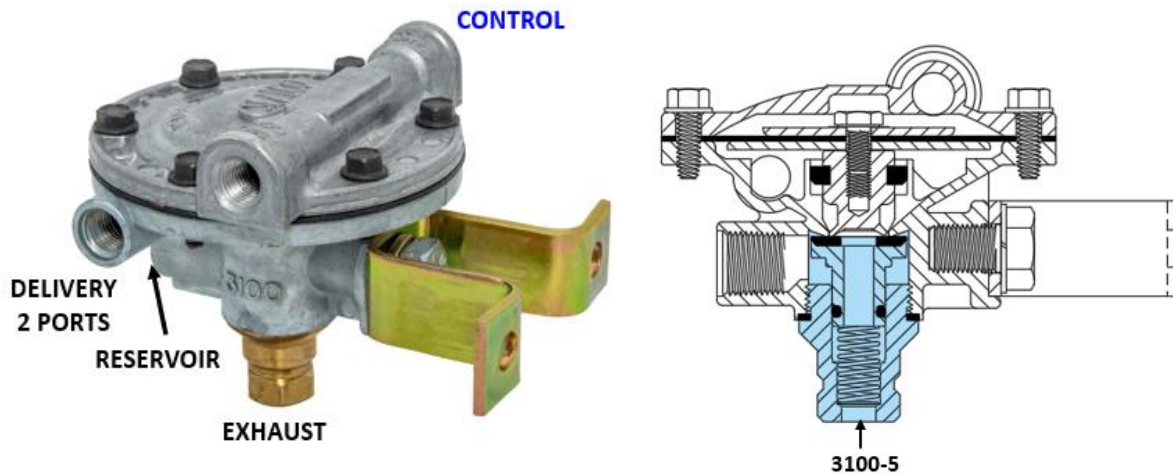
- Commonly used in the trailer supply line ahead of the spring brake control valve or emergency relay valve
- Reduces supply line & air reservoir contamination to extend the life of other air valves in the system
- The internal filter has 8 square inches of filter area & is removable for cleaning purposes during periodic maintenance schedules
- Supply Line Filter must only be mounted vertically to insure proper operation
- Dimensions: Height 4.25" - Width 1.53" - Depth 2.78" • Approximate Weight: .66 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [PLUG UNIT ASSEMBLY 2550-5](#)
- [Competitive Part Interchange Guide](#)

* NOTE: USE OF THIS LINE FILTER IN THE CONTROL LINE IS NOT RECOMMENDED

PART NUMBER	PORT SIZES (NPT)	
	INLET	OUTLET
2550	3/8"	3/8"



Control Line Valve

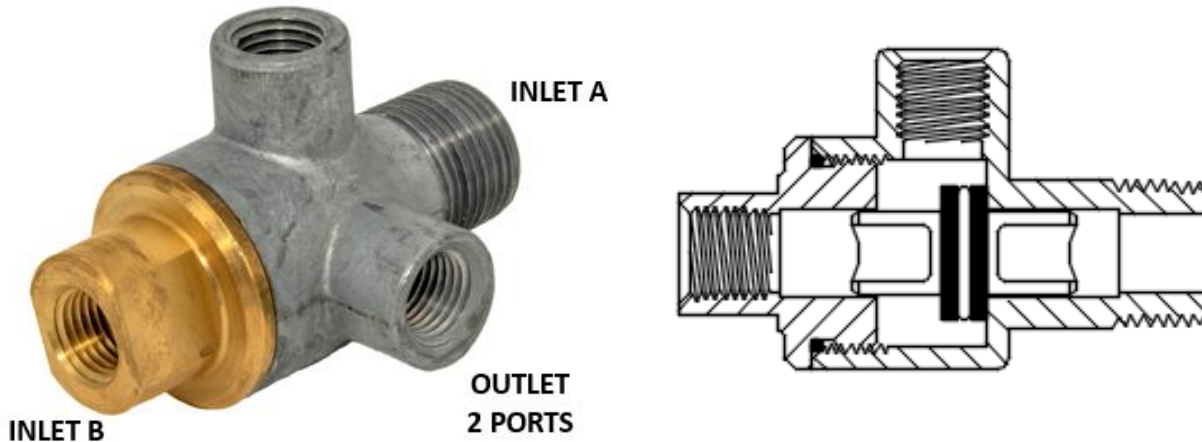


- Early version of Control Line valve used primarily on dollies
- Improves application & release of brakes on dollies & rearmost trailer axles in double & triple trailer combinations
- All unused ports must be plugged
- Can be replaced by the 110570 series or 110580 series of valves
- Dimensions: Height 3.94" - Width 4.38" - Length 5.44" • Approximate Weight: 2.41 lbs
- **PLUG UNIT ASSEMBLY 3100-5**
- **RUBBER REPAIR KIT 31-5**
- **Mounting Hardware** – See Air Valves & Related Products / Mounting Hardware
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Competitive Part Interchange**

PART NUMBER	PORT SIZES (NPT)			NOMINAL CRACK PRESSURE
	CONTROL	RESERVOIR	DELIVERY 2	
3100	1/4"	3/8"	1/4"	2.5 psi



Two-Way Check Valves

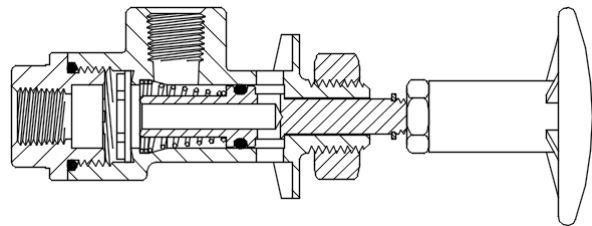
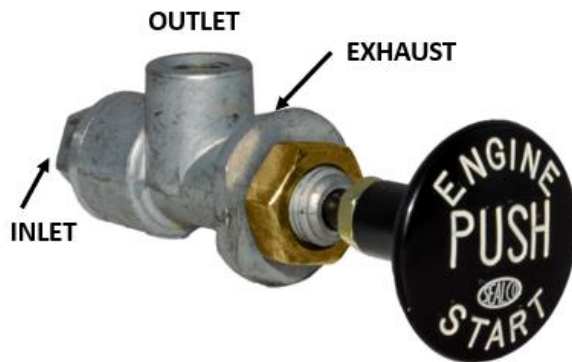


- Commonly used for applications with dual inlet pressures to common outlet port(s)
- Allows air to flow through to outlet port(s) from highest inlet pressure A or B
- Dimensions: Height 2.87" - Width 1.75" - Depth 1.75" • Approximate Weight: .46 lbs. (See [Weight Chart](#))
- [REPAIR KIT 32-5](#)
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

PART NUMBER	PORT SIZES (NPT)		
	INLET A	INLET B	OUTLETS
3200	1/4"	1/2"	1/4"
3200 1/4	1/4"	1/4"	1/4"



Hand Control Valve – Auto Reset



- Commonly used as dash valve inside tractor or truck for applications shown below

- Delivers air pressure only when the knob is held in by operator

- Once the knob is released, all air pressure in the delivery will be vented

- Dimensions: Height 1.30" - Width 1.00" - Length 3.87"
Approximate Weight: .27 lbs. (See [Weight Chart](#))

- [REPAIR KIT 110241](#)

- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

- [Competitive Part Interchange](#)



13S (BLACK)

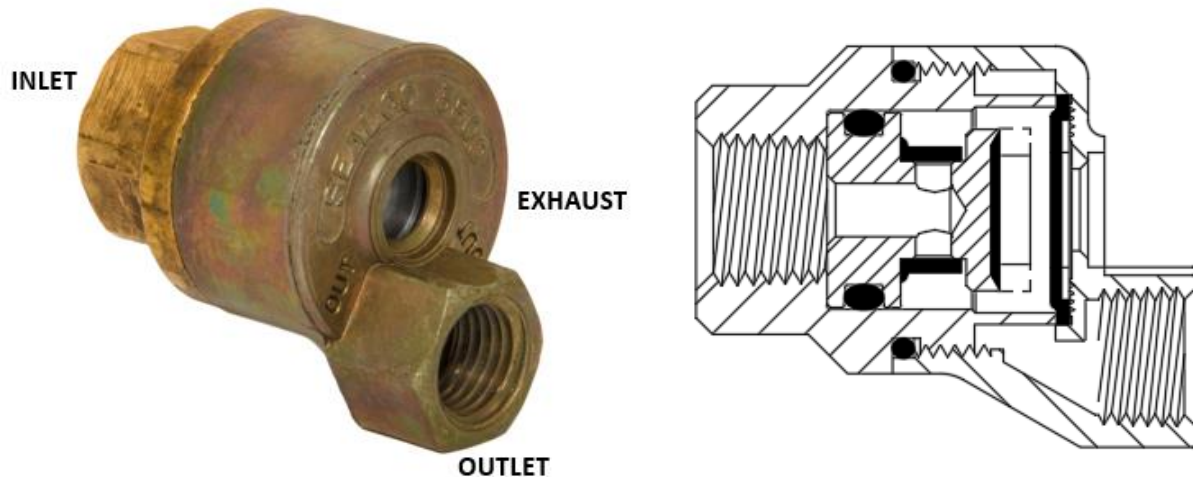


13-G (GREEN)

PART NUMBER	KNOB	PORT SIZES (NPT)		MOUNTING THREAD SIZE	APPLICATION
		INLET	OUTLET		
3450S	13-S	1/8"	1/8"	7/8"	Starter Control
340250	13-S	1/8"	1/8"	1/2"	Starter Control
342501	13-S	1/8"	1/8"	7/16"	Starter Control
3450G	13-G	1/8"	1/8"	7/8"	Emergency Release
340350	13-G	1/8"	1/8"	1/2"	Emergency Release
342502	13-G	1/8"	1/8"	7/16"	Emergency Release



Ratio Quick Release Valve

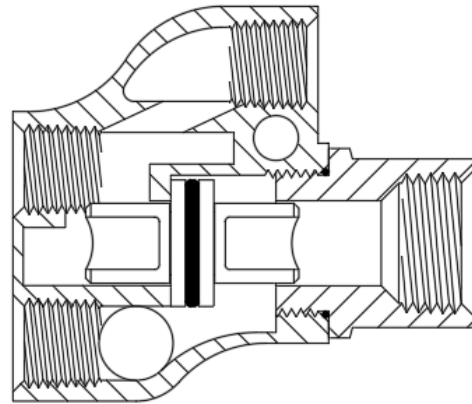
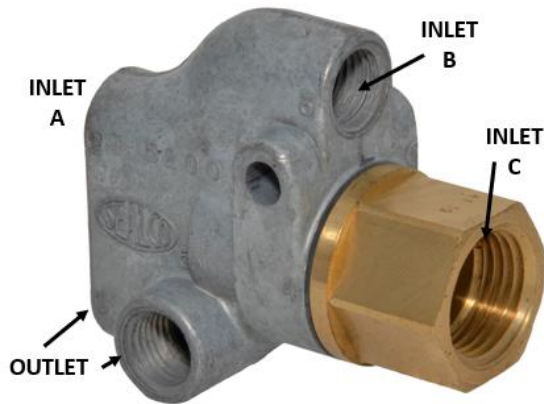


- Combination Pressure holding & quick release valve
- Operates as a pressure holding valve until inlet pressure drops 2 to 2 ½ psi below output pressure before valve begins to exhaust
- Prevents unwanted loss of outlet pressure when inlet pressure varies during normal operation
- Heavy duty metal construction with rubber to metal bonded movable seat for durability
- In line mounting
- Dimensions: Height 1.94" - Width 1.56" - Depth 1.37" • Approximate Weight: .32 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)		COMMENTS
	SUPPLY	CONTROL	
3800	1/4"	1/4"	In line mounting



Two-Way Check Valve

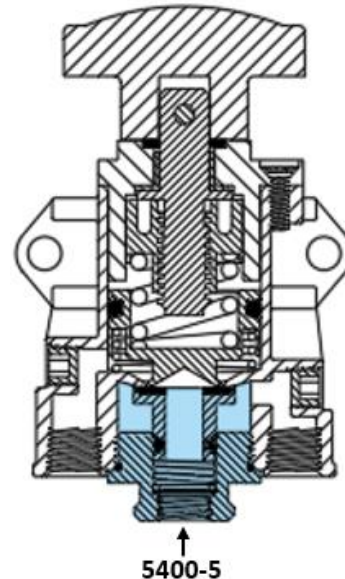


- Commonly used for applications with multiple inlet pressures to common outlet port(s)
- Allows air to flow through to outlet port(s) from highest inlet pressure
- Dimensions: Height 1.18" - Width 1.25" - Depth 2.37" • Approximate Weight: .50 lbs.
- [REPAIR KIT 52-5](#)
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

PART NUMBER	PORT SIZES (NPT)			
	INLET A	INLET B	INLET C	OUTLET (2)
5200	1/4"	1/4"	1/2"	1/4"



Pressure Regualtor Valve

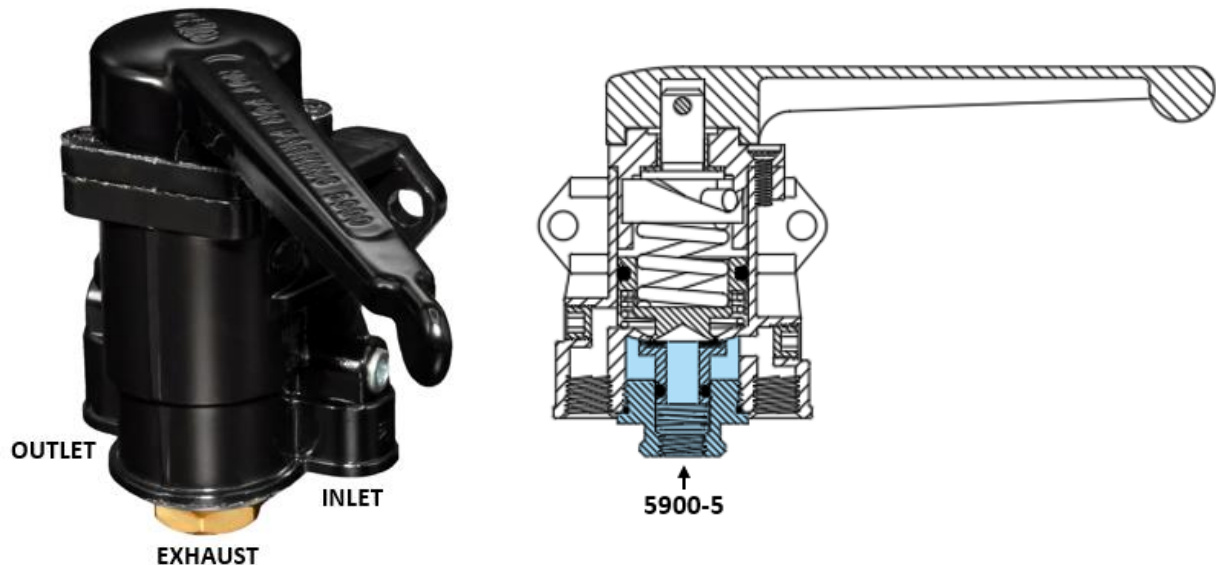


- Commonly used to manually regulate air pressure between inlet & outlet ports
- Self relieving pressure feature with manual knob operation
- Dimensions: Height 5.12" - Width 3.31" - Depth 2.62" • Approximate Weight: 2.21 lbs.
- **PLUG UNIT 5900-5**
- **REPAIR KIT 59-5**
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)			NOMINAL PRESSURE SETTING
	INLET	OUTLET	EXHAUST	
5400	1/4"	1/4"	1/4"	0 psi to reservoir pressure



Trailer Brake Hand Valves



- Commonly used inside tractor cab to operate trailer brakes

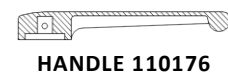
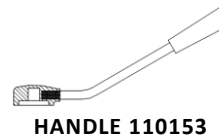
- Not to be used for parking

• Dimensions: Height 4.38" - Width 3.31" - Depth 2.28"
Approximate Weight: 2.41 lbs. (See [Weight Chart](#))

- **PLUG UNIT 5900-5**

- **MINOR PLUG UNIT 59-5**

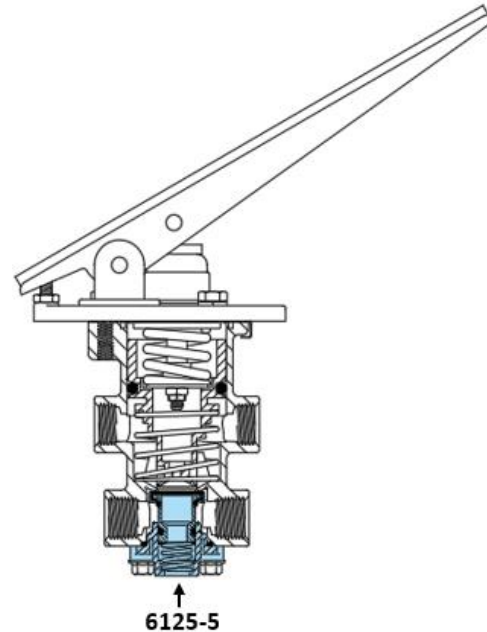
* Only 5900L valve has locking handle



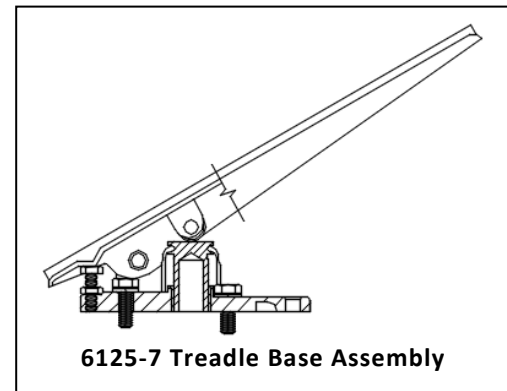
PART NUMBER	HANDLE	PORT SIZES (NPT)			MOUNTING KIT	MOUNTING
		INLET	OUTLET	EXHAUST		
5900	110176	1/4"	1/4"	1/4"	110174	Column
5900-1	-	1/4"	1/4"	1/4"	-	-
5900B	110176	1/4"	1/4"	1/4"	110182	Dash
5900G	110153	1/4"	1/4"	1/4"	110174	Column
5900GI	110152	1/4"	1/4"	1/4"	110174	Column
5900L *	110149	1/4"	1/4"	1/4"	110174	Column
5900R	-	1/4"	1/4"	1/4"	110174	Rem. Column
110436	-	1/4"	1/4"	1/4"	-	-
110516	110152	1/4"	1/4"	1/4"	110174	Column



Foot Valve – Single Circuit



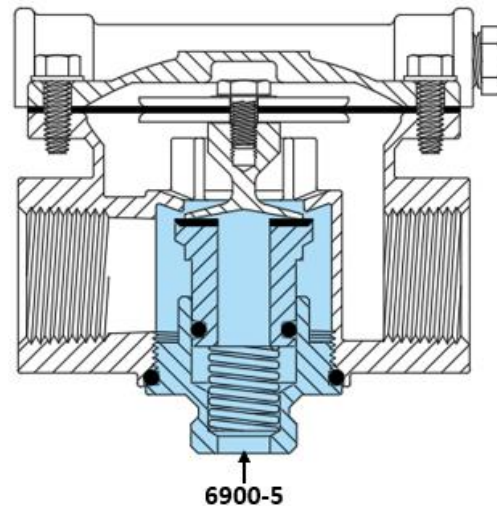
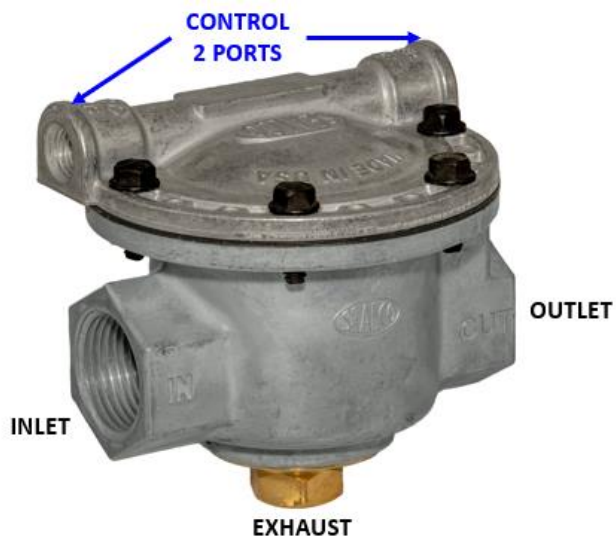
- Used to apply & release service brakes on tractor, truck & trailer
- Dimensions: Height 5.10" - Width 4.64" - Depth 5.06"
- Approximate Weight: 5.21 lbs. (See [Weight Chart](#))
- [PLUG UNIT ASSEMBLY 6125-5](#)
- [MINOR REPAIR KIT 912-5](#)
- [Competitive Part Interchange](#)



PART NUMBER	PORT SIZES (NPT)		TREADLE BASE ASSEMBLY	TREADLE ANGLE
	SUPPLY (4)	DELIVERY (4)		
6125	1/2"	1/2"	6125-7	30°
6125-2	1/2"	1/2"	None	-
6125-25	1/2"	1/2"	6125-7	25°
6125-35	1/2"	1/2"	6125-7	35°
6125-40	1/2"	1/2"	6125-7	40°
6125-45	1/2"	1/2"	6125-7	45°



Air Starter Valves

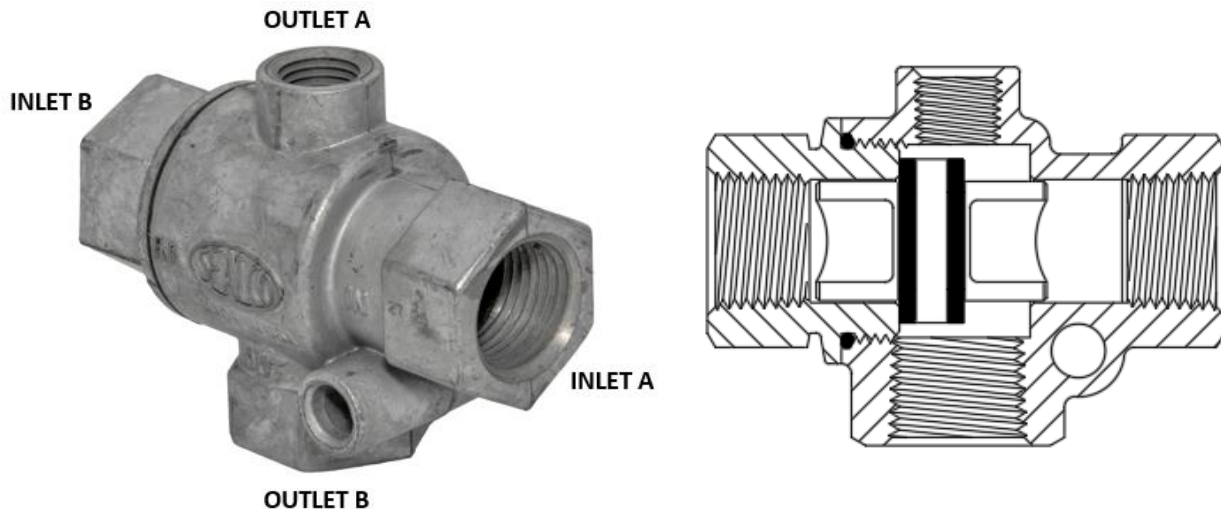


- Commonly used where high volume delivery pressure is required such as an air starter motor
- Dimensions: Height 4.31" - Width 4.37" - Depth 4.12" • Approximate Weight: 3.20 lbs. (See [Weight Chart](#))
- **PLUG UNIT ASSEMBLY 6900-5**
- **REPAIR KIT 69-5**
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)			
	INLET	OUTLET	SERVICE - CONTROL (2)	Exhaust
6900	1"	1"	1/4"	No thread
110188	1"	1"	1/4"	1/8"



Two-Way Check Valve

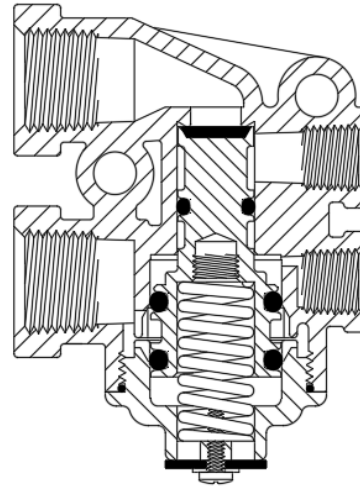
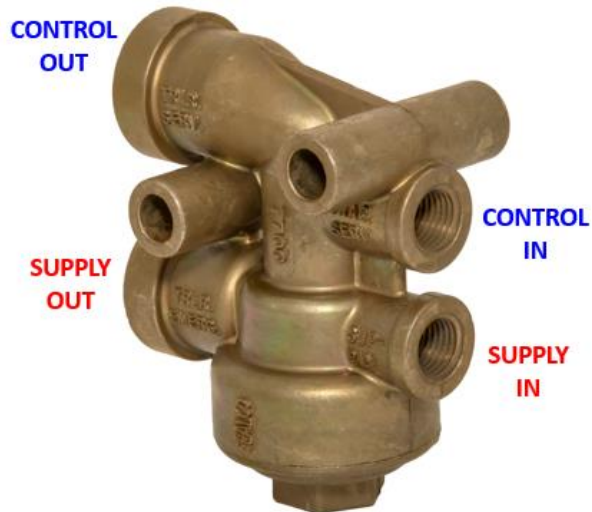


- Commonly used for applications with dual inlet pressures to common outlet port(s)
- Allows air to flow through to outlet port(s) from highest inlet pressure A or B
- Dimensions: Height 2.25" - Width 3.18" - Depth 1.50" • Approximate Weight: .69 lbs.
- [REPAIR KIT 72-5](#)

PART NUMBER	PORT SIZES (NPT)			
	INLET A	INLET B	OUTLET A	OUTLET B
7200	1/2"	1/2"	1/4"	1/2"



Breakaway Valve – Tractor Protection Valve

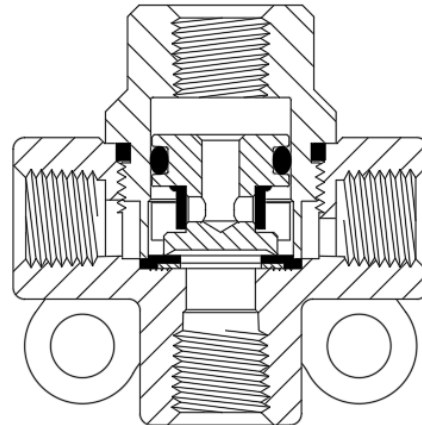


- Prevents the loss of tractor brakes in the event of a trailer breakaway
- Automatically applies between 45 psi & 20 psi
- Dimensions: Height 3.62" - Width 1.93" - Depth 1.81" • Approximate Weight: 1.18 lbs.
- **REPAIR KIT 77-5**
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)			
	SUPPLY IN	SUPPLY OUT	CONTROL IN	CONTROL OUT
7700	1/4"	1/2"	1/4"	1/2"



Ratio Quick Release Valves

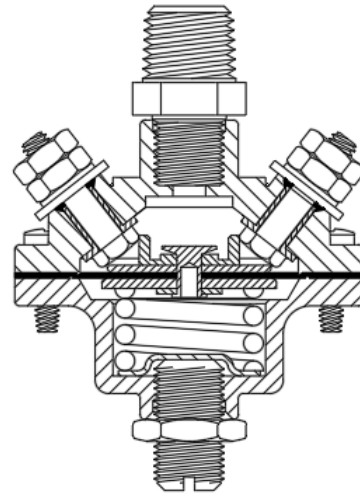


- Combination pressure holding & quick release valve
- Operates as a pressure holding valve until inlet pressure drop to 2 to 2 ½ psi below outlet pressure before valve begins to exhaust
- The ratio feature operates during the exhaust cycle. While building air from 0 psi, Inlet pressure is 1:1 with Outlet pressure. During exhaust cycle, Inlet pressure must decrease by 2.5 times before Outlet pressure exhausts.
- Prevents unwanted loss of outlet pressure when inlet pressure varies during normal operation
- Heavy duty metal construction with rubber to metal bonded moveable seat for durability
- 2 hole bracket for frame or crossmember mounting
- Dimensions: Height 2.25" - Width 2.25" - Depth 2.00" • Approximate Weight: .60 lbs. (See [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)		EXHAUST SEAL
	INLET	OUTLET (2)	
7800	1/4"	1/4"	-
780210	3/8"	3/8"	-
780219	3/8"	3/8"	715152
780210M	16mm	16mm	-
780524	3/8"	3/8"	110524



Low Pressure Switch – Adjustable

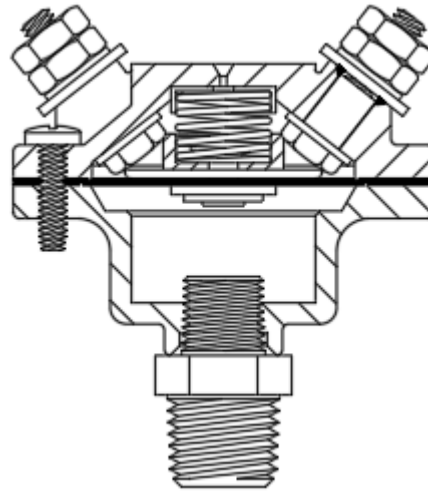


- Adjustable Low Pressure Switches are designed to complete an electrical connection when the air pressure supplied to the switch falls below a certain air pressure setting
- Factory set at 60 psi or 70 psi
- Adjustment range 45 psi to 100 psi
- Dimensions: Height 2.83" - Width 2.00" - Depth 2.00" • Approximate Weight: .39 lbs. (See [Weight Chart](#))
- [REPAIR KIT 80-5](#)
- [Competitive Part Interchange](#)

PART NUMBER	FITTING	PORT	MOUNTING
8000	1/4"	n/a	Nipple



Indicator Light Switch



- Indicator Light Switches are designed to complete an electrical circuit to the stop lights or other electrical devices when the air pressure supplied to the switch reaches approximately 2 psi

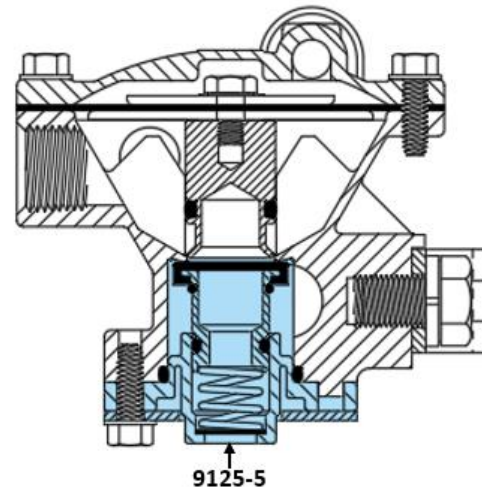
- Dimensions: Height 2.37" - Width 2.00" - Depth 2.18" • Approximate Weight .34 lbs. (See [Weight Chart](#))

- [Competitive Part Interchange](#)

PART NUMBER	FITTING	PORT	MOUNTING
8100	1/4"	n/a	Nipple



Service Relay Valves (3 Delivery Ports)

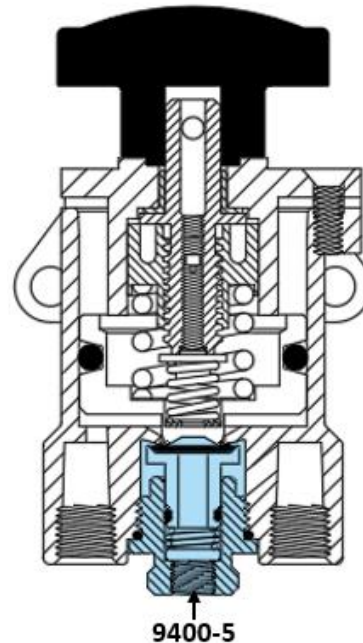


- Commonly used as tractor, truck & trailer bracket mounted Relay Valve
- Dimensions: Height 4.25" - Width 4.38" - Depth 4.53" • Approximate Weight: 3.23 lbs. (See [Weight Chart](#))
- [PLUG UNIT ASSEMBLY 9125-5](#)
- [REPAIR KIT 912-5](#)
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware

PART NUMBER	PORT SIZES (NPT)			NOMINAL CRACK PRESSURE	MOUNTING KIT INCLUDED
	CONTROL (2)	RESERVOIR (2)	DELIVERY (3)		
9125	1/4"	1/2"	3/8" (2) 1/2" (1)	5.5 PSI	110237
110207	3/8"	1/2"	3/8" (2) 1/2" (1)	5.5 PSI	110237
110228	3/8"	1/2"	3/8" (2) 1/2" (1)	5.5 PSI	110156



Pressure Regulator Valves

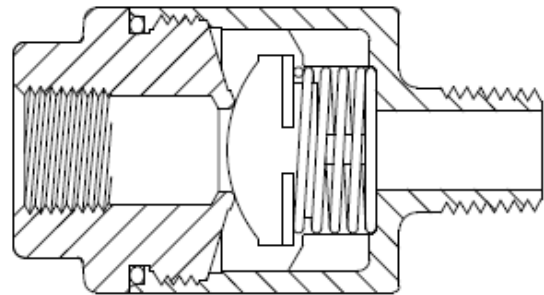


- Commonly used to manually regulate air pressure between inlet & outlet ports
- Self relieving pressure feature with manual knob operation
- Dimensions: Height 5.25" - Width 2.50" - Depth 3.37" • Approximate Weight: 2.18 lbs. (See [Weight Chart](#))
- [PLUG UNIT 9400-5](#)
- [REPAIR KIT 94-5](#)
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)			NOMINAL PRESSURE SETTING
	INLET	OUTLET	EXHAUST	
9400	1/4"	1/4"	1/8"	5 to 6 psi to 85 psi
940000	1/4"	1/4"	1/8"	0 psi to reservoir pressure



One-Way Check Valves



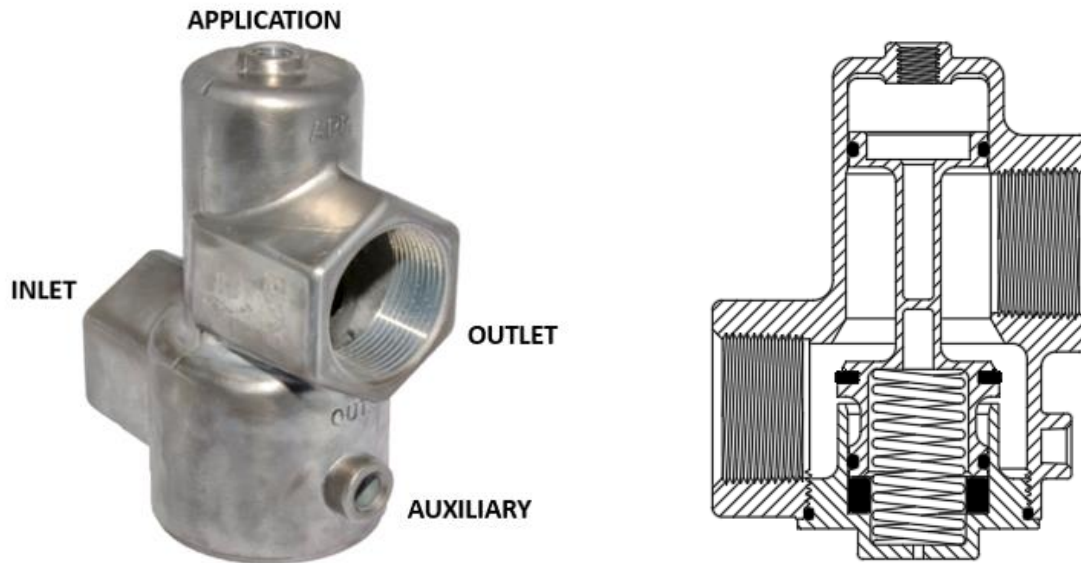
- Commonly used in supply line air pressure from reservoir to control line valves & between air reservoirs
- Allows air to flow through in only one direction from inlet to outlet
- When loss of inlet pressure occurs, air is prevented from flowing back through valve
- Dimensions: Height 1.50" – Width 1.50" – Length 2.77" • Approximate Weight .46 lbs. (see [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange Guide](#)

* Cast of special aluminum alloy

PART NUMBER	PORT SIZES (NPT)	
	INLET	OUTLET
10200 3/8	3/8"	3/8"
10200 1/2	1/2"	1/2"
10200 3/4	3/4"	3/4"
102001	3/4"	1/2"
102002	1/2"	3/4"
A10200 *	1/2"	3/4"
10200M	22mm	22mm



Air Starter Valves

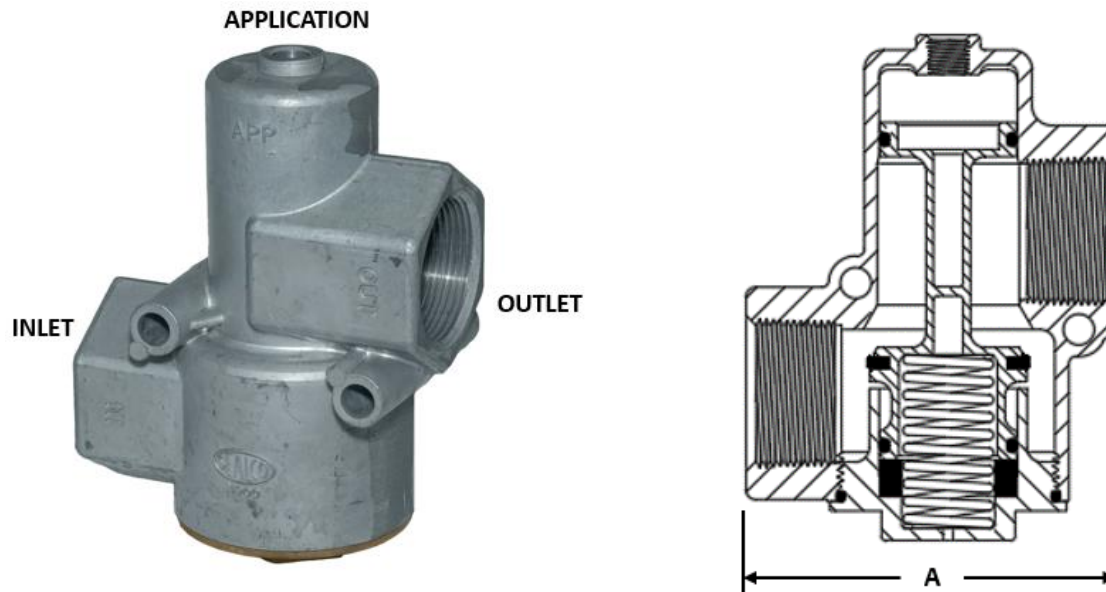


- Commonly used where high volume delivery pressure is required such as an air starter motor
- No mounting holes in casting
- Dimensions: Height 6.44" - Width 2.38" - Depth 4.69" • Approximate Weight: 4.77 lbs. (See [Weight Chart](#))
- [REPAIR KIT 109-5](#) for Nitrile o-rings only
- [REPAIR KIT 110407](#) for Viton o-rings only
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange Guide](#)

PART NUMBER	PORT SIZES (NPT)				O-RING MATERIAL
	INLET	OUTLET	APPLICATION	AUXILIARY	
10900	1 1/2"	1 1/2"	1/4"	Closed	Nitril
110250	1 1/2"	1 1/2"	1/4"	Open 1/4"	Nitril
110390	1 1/4"	2 1/4"	1/4"	Open 1/4"	Viton



Air Starter Valves

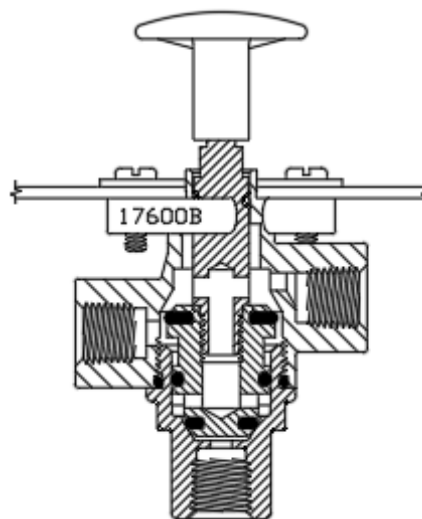


- Commonly used where high volume delivery pressure is required such as an air starter motor
- Two mounting holes in valve casting
- Dimensions: Height 6.43" - Width 5.06" - Depth See Below • Approximate Weight: 4.77 lbs. (See [Weight Chart](#))
- [REPAIR KIT 109-5](#) for Nitrile o-rings only
- [REPAIR KIT 110407](#) for Viton o-rings only
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

PART NUMBER	PORT SIZES (NPT)			"A" DIMENSION	O-RING MATERIAL
	INLET	OUTLET	APPLICATION		
11900	1 1/2"	1 1/2"	1/4"	4.7"	Nitrile
14900	1 1/4"	1 1/4"	1/4"	4.3"	Nitrile
110486	1 1/2"	1 1/2"	1/4"	4.7"	Viton



Manual Push/Pull Valves – Two Hole Mounting



- Common manual push-pull air valve used in truck/tractors or on converter dollies, semi & full trailers

- Dimensions: Height 4.78" - Width 2.56" - Depth 1.50"
- Approximate Weight: .82 lbs. (see [Weight Chart](#))

- [Air Piping Diagrams](#)
- [REPAIR KIT 176-5](#)
- [Competitive Part Interchg](#)



PLATE 817



PLATE 826



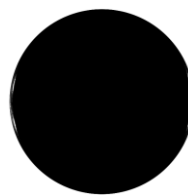
PLATE 855



13 (BLACK PLASTIC)



13-1 (BLACK PLASTIC)



0190 (BLACK METAL)



9008 (BLACK PLASTIC)

PART NUMBER	NAME PLATE	KNOB	PORT SIZES (NPT)			COMMENTS
			Inlet	Outlet	Exhaust	
17600	817	13	1/4"	1/4"	1/4"	Cab Control
17600B	826	13	1/4"	1/4"	1/4"	Dolly & Trailer Park Brake Release
17600B-2	-	-	1/4"	1/4"	1/4"	Basic Valve
17638	-	9008	3/8"	3/8"	3/8"	Park Brake Release
110114	-	9008	1/4"	1/4"	1/4"	Park Brake Release
110274	826	0190	1/4"	1/4"	1/4"	Park Brake Release
110284	-	13	1/4"	1/4"	1/4"	Park Brake Release
110514	817	0190	1/4"	1/4"	1/4"	Cab Control
110644	-	13-1	1/4"	1/4"	1/4"	Contains screws but no name plate



Manual Push-Pull Valves – Single Hole Mounting

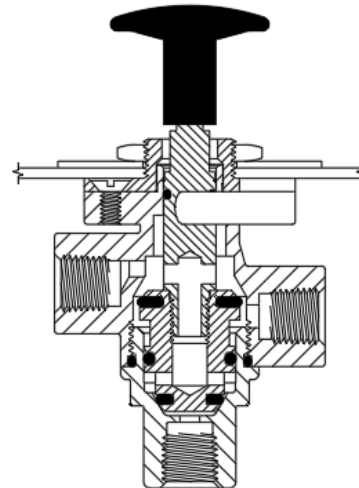


PLATE 826



PLATE 844



PLATE 8026



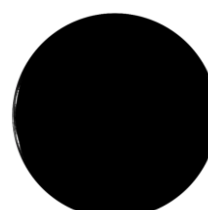
KNOB 13 (BLACK PLASTIC)



KNOB 13-1 (BLACK PLASTIC)



KNOB 13R (RED PLASTIC)



KNOB 0190 (BLACK METAL)



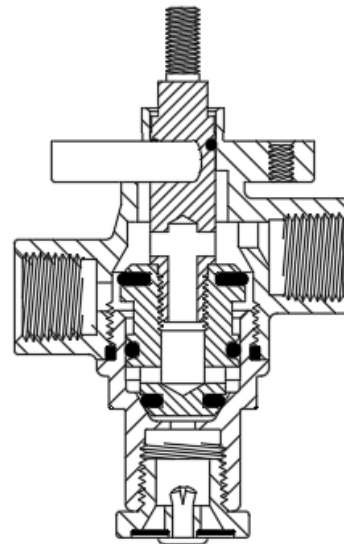
KNOB 9008 (BLACK PLASTIC)

- Common manual push-pull air valve used in truck/tractors or on converter dollies, semi & full trailers
- Dimensions: Height 4.78" - Width 2.56" - Depth 1.75" • Approximate Weight: .92 lbs. (See [Weight Chart](#))
- [REPAIR KIT 176-5](#)
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

PART NUMBER	NAME PLATE	KNOB	PORT SIZES (NPT)			COMMENTS
			Inlet	Outlet	Exhaust	
17600L	844	13	1/4"	1/4"	1/4"	Cab Control
17600LB	8023	13	1/4"	1/4"	1/4"	Park Brake Release
17600LG	-	13R	1/4"	1/4"	1/4"	Park Brake Release
17600LR	-	13R	1/4"	1/4"	1/4"	Cab Control
17638L	-	9008	3/8"	3/8"	3/8"	Park Brake Release
110252	-	9008	1/4"	1/4"	1/4"	Park Brake Release
110512	826	13-1	1/4"	1/4"	1/4"	Park Brake Release
110760	-	0190	1/4"	1/4"	1/4"	Park Brake Release



Air Bag Control Valve – Manual Operation



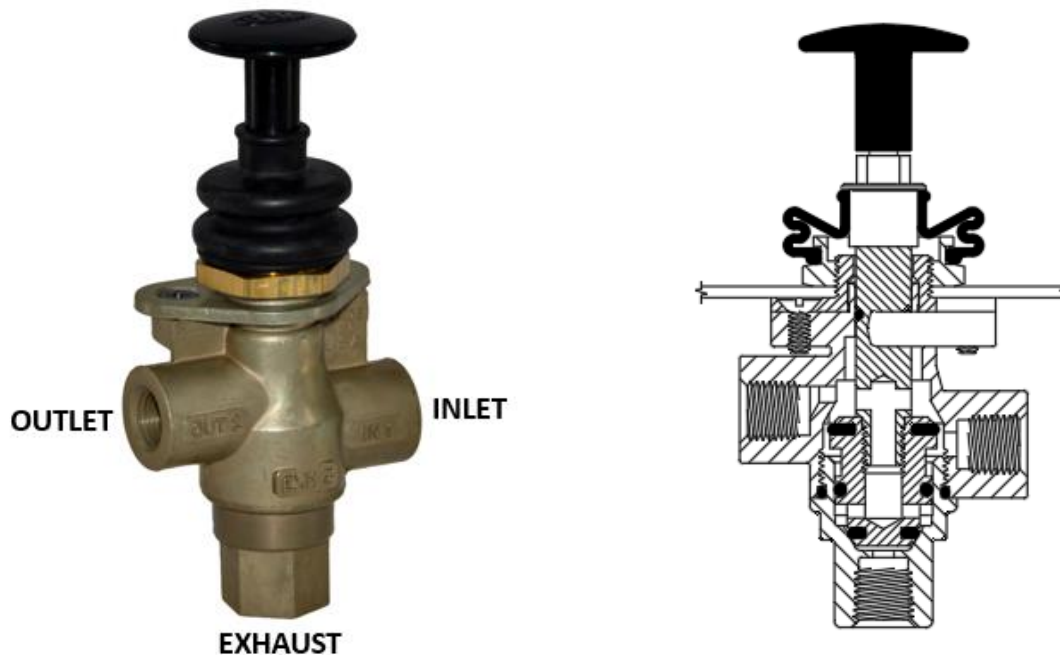
- Commonly used to control the inflation & deflation of air suspension bags
- Often used with 110587 Pilot Valve to deflate air bags
- Allows for movement of the trailer back to the dock without re-inflating the air bags
- Operates with all air suspension systems
- Pull to manually exhaust air from the air bags & push to refill that air bags from the reservoir
- Includes 110524 Exhaust Cap
- Dimensions: Height 4.78" - Width 2.56" - Depth 1.75" • Approximate Weight: .87 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)



PART NUMBER	PORT SIZES (NPT)	
	INLET	OUTLET
17610	3/8"	3/8"



Manual Push/Pull Valve – Single Hole Mounting

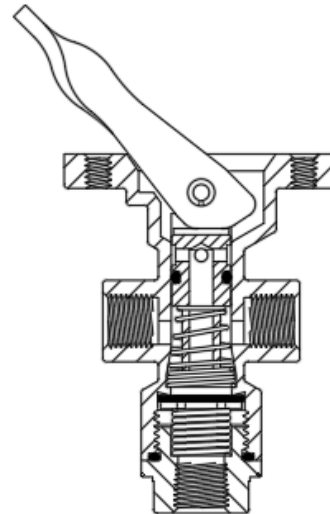
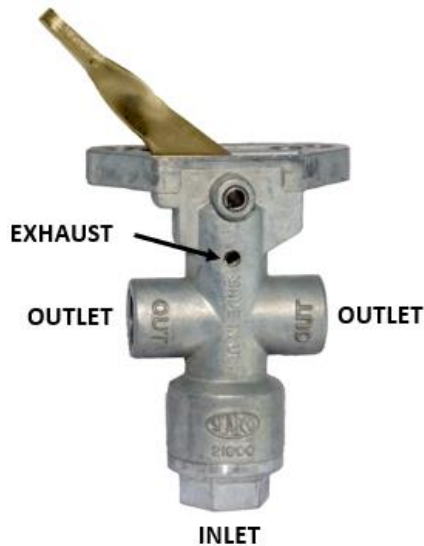


- Common manual push-pull air valve used in truck/tractors or on converter dollies, semi & full trailers
- Integrated rubber boot for added protection from contamination
- Dimensions: Height 4.78" - Width 2.56" - Depth 1.75" • Approximate Weight: .87 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)		
	INLET	OUTLET	EXHAUST
17620	1/4"	1/4"	1/4"



Lever Control Valves



- Used as 2 hole panel mount on/off lever air valve for a variety of applications
- Manual operation
- Dimensions: Height 4.51" - Width 2.63" - Depth 2.00" • Approximate Weight: .33 lbs. (See [Weight Chart](#))

• **REPAIR KIT 110242**

• **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable

• **Competitive Part Interchange**



PLATE 812



PLATE 821



PLATE 8022

PART NUMBER	NAME PLATE	PORT SIZES (NPT)	
		INLET	OUTLET (2)
21600	821	1/8"	1/8"
21600D	812	1/8"	1/8"
21600-2	None	1/8"	1/8"
110167	None	1/8"	1/8"
110300	8097	1/8"	1/8"
110301	8098	1/8"	1/8"
110413	8116	1/8"	1/8"
216050	8023	1/8"	1/8"
216100	8007	1/8"	1/8"
216200	8022	1/8"	1/8"



PLATE 8023



PLATE 8097



PLATE 8098

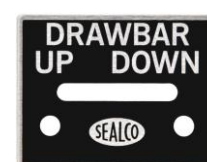
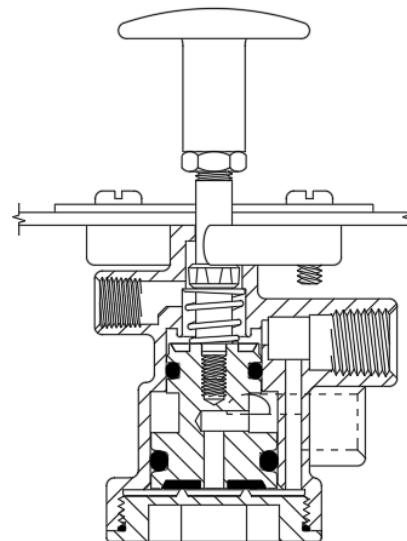


PLATE 8116



Push/Pull Valves – Automatic Shut Off (Two Hole Mounting)



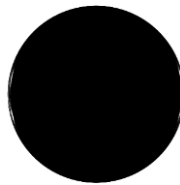
- Commonly used as manual on/off push-pull valve for parking brake control in cabs of trucks, tractors & buses
- Automatic shut-off when Inlet pressure drops below indicated psi below
- Two hole mounting
- Dimensions: Height 3.18" - Width 2.31" - Depth 1.56" Approximate Weight: .74 lbs. (See [Weight Chart](#))
- **SHUTTLE ASSEMBLY 99600-5**
- **MINOR REPAIR KIT 996-5**
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams



13 (BLACK PLASTIC)



13-1 (BLACK PLASTIC)



0190 (BLACK METAL)



9073 (YELLOW PLASTIC)



PLATE 806



PLATE 819

PART NUMBER	NAME PLATE	KNOB	PORT SIZES (NPT)			SHUT OFF (psi)
			INLET	OUTLET	EXHAUST	
99600	806	13	1/4"	1/4"	1/8"	30 ± 5
99600B	819	13	1/4"	1/4"	1/8"	30 ± 5
99600BL	819	13	1/4"	1/4"	1/8"	Locking
99600-2	-	-	1/4"	1/4"	1/8"	30 ± 5
99610	-	0190	1/4"	1/4"	1/8"	30 ± 5
99610BL	-	9073	1/4"	1/4"	1/8"	Locking
99620	8179	13	1/8"	1/4"	1/8"	30 ± 5
110189	819	13	1/4"	1/4"	1/8"	45 ± 5
110221	819	13	1/4"	1/4"	1/8"	60 ± 5
110421	8126	13-1	1/4"	1/4"	1/8"	30 ± 5



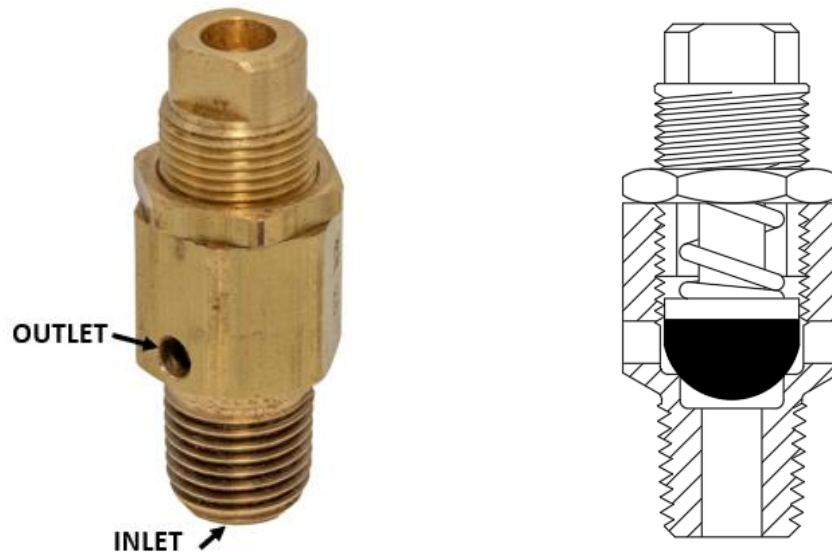
PLATE 8126



PLATE 8179



Pressure Relief Valves

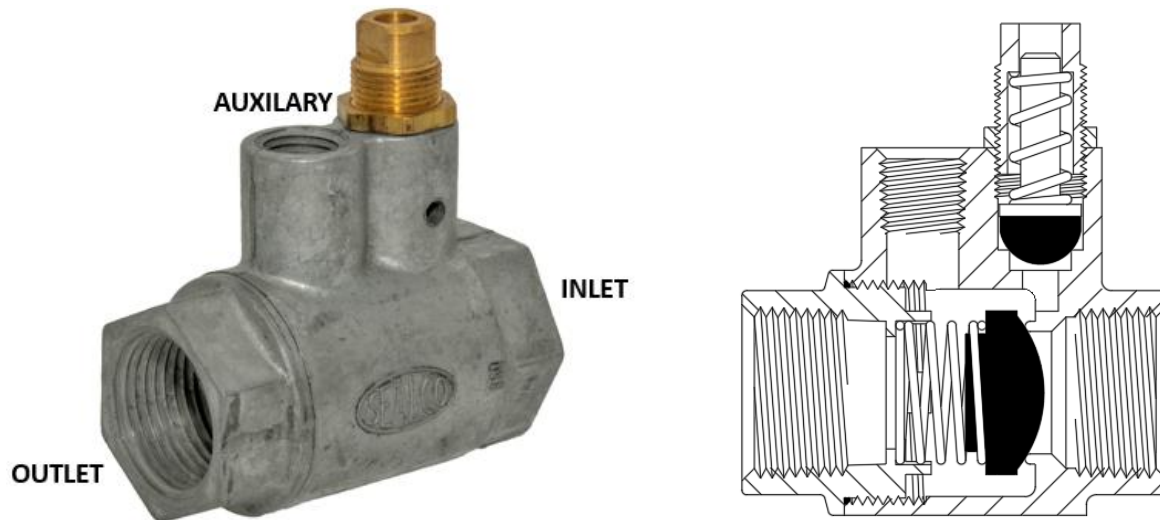


- Pressure Relief Valves are designed to open at a designated pressure thereby relieving air pressure buildup
- Part numbers 110127 & 110627 are commonly used on truck, tractor or bus air brake system reservoirs in the event that the governor fails to cut-out at the designated air pressure & are normally mounted on the reservoir
- Dimensions: Height .80" - Width .71" - Depth .71" • Approximate Weight: .12 lbs. (See [Weight Chart](#))
- [Competitive Part Interchange](#)

PART NUMBER	PORT SIZE (NPT)	PRESSURE SETTING
110127	1/4"	Factor set at 150 psi
110399	1/4"	Factor set at 55 psi
110601	1/4"	Factor set at 95 psi



Combination Valve

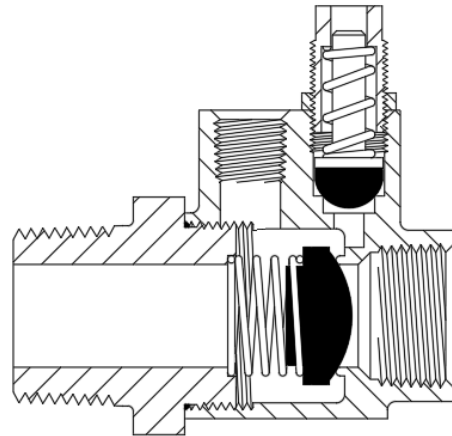


- Commonly used on air starter systems
- Combination Valves act as a one-way check valve & adjustable pressure relief valve
- Factory pressure set at 150 to 160 psi
- Dimensions: Height 2.87" - Width 1.43" - Depth 2.56" • Approximate Weight: .64 lbs.

PART NUMBER	PORT SIZES (NPT)		
	INLET	OUTLET	AUXILARY
110130	3/4"	3/4"	1/4"



Combination Valve

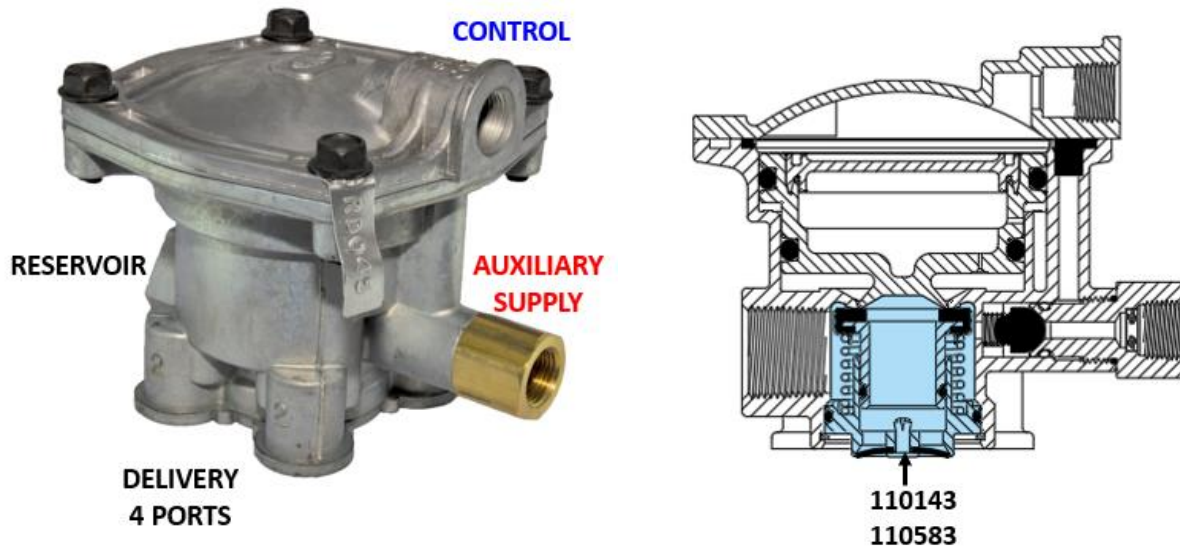


- Commonly used on air starter systems
- Combination Valves act as a one-way check valve & adjustable pressure relief valve
- Factory pressure set at 150 to 160 psi
- Dimensions: Height 2.87" - Width 1.43" - Depth 3.75" • Approximate Weight: .64 lbs.

PART NUMBER	PORT SIZES (NPT)		
	INLET	OUTLET	AUXILARY
110131	3/4"	1"	1/4"



Service Relay Valves (4 Delivery Ports)



- The ratio feature is considered a benefit in hard stop situations & refers to the relationship between the control air pressure to the valve & the delivered air pressure from the valve to the service brake chambers

- During normal stopping a 1:1 ratio exists between the control & delivered air pressures. In a hard stop the ratio momentarily changes to 1:1.5 until valve lap off occurs & the 1:1 ratio is restored. This change takes place in less than 1/100 of a second

- Do not use ratio feature valves on converter dollies, trailer turnable axles or lift axles

- Dimensions: Height 4.75" - Width 4.72" - Depth 5.63" • Approximate Weight: 3.92 lbs. (See [Weight Chart](#))

- [PLUG UNIT ASSEMBLIES 110143 & 110583](#)

- [MINOR REPAIR KIT 110005](#) • [MAJOR REPAIR KIT 110118](#) • [AUXILIARY SUPPLY PORT REPAIR KIT 110673](#)

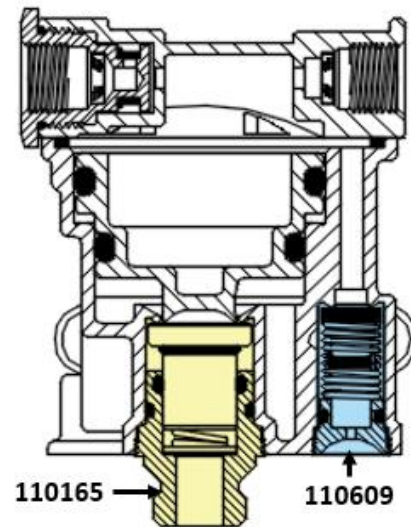
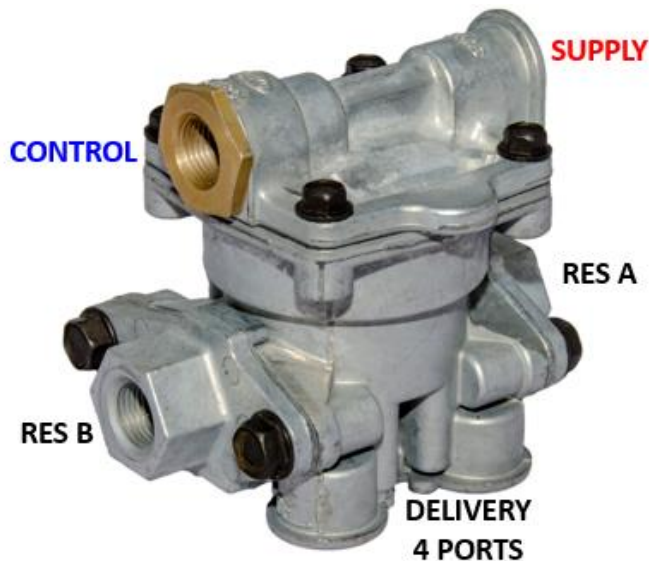
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware

- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)				RATIO FEATURE	NOMINAL CRACK PRESSURE	PLUG UNIT
	AUXILIARY SUPPLY	CONTROL	RESERVOIR	DELIVERY			
110139	3/8"	3/8"	3/4"	3/8"	Yes	4.5 psi	110143
110450	3/8"	3/8"	3/4"	3/8"	No	4.5 psi	110143
110451	Capped	3/8"	3/4"	3/8"	No	4.5 psi	110143
110584	3/8"	3/8"	3/4"	3/8"	Yes	5.5 psi	110583
110600	Capped	3/8"	3/4"	3/8"	Yes	4.5 psi	110143



Spring Brake Control Valves – Protected Reservoir System

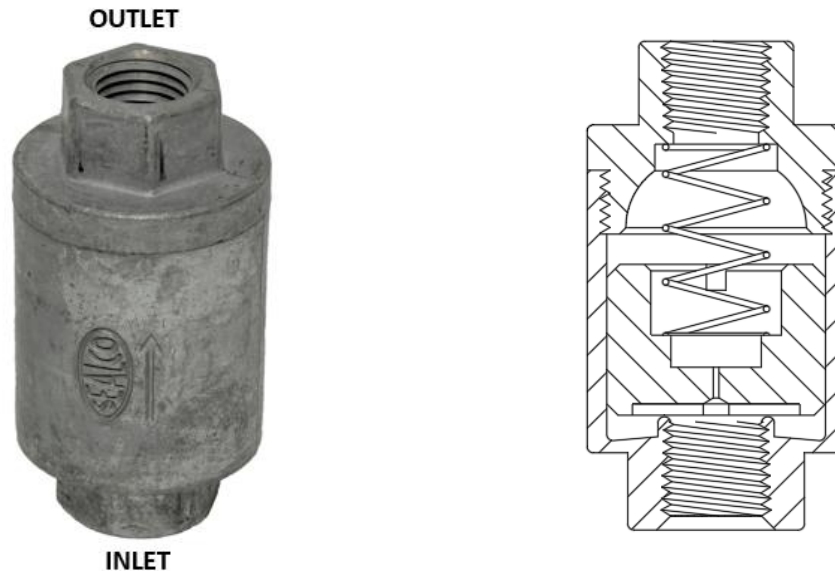


- The Protected Reservoir System requires 2 or 3 air reservoirs supplied by the reservoir ports of the valve which protects one or the other air reservoir(s) in the case of a sudden loss of air pressure.
- Complies with all regulations of FMVSS 121 & CMVSS 121
- Dimensions: Height 4.78" - Width 3.75" - Depth 4.56" • Approximate Weight: 3.82 lbs. (See [Weight Chart](#))
- [PLUG UNIT ASSEMBLY 110609](#) • [PLUG UNIT ASSEMBLY 110165](#)
- [MAJOR REPAIR KIT 110185](#) • [MINOR REPAIR KIT 110195](#)
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange Guide](#)

PART NUMBER	PORT SIZES (NPT)					COVER ROTATE	COVER PICTURE
	SUPPLY	CONTROL	RES A	RES B	DELIVERY		
110170	3/8"	3/8"	1/2"	1/2"	3/8"	None	
110171	3/8"	3/8"	1/2"	3/8"	3/8"	90°	
110191	3/8"	3/8"	3/8"	1/2"	3/8"	90°	
110310	3/8"	3/8"	3/8"	1/2"	3/8"	None	
110315	3/8"	3/8"	1/2"	3/8"	3/8"	None	



Bypass Check Valves

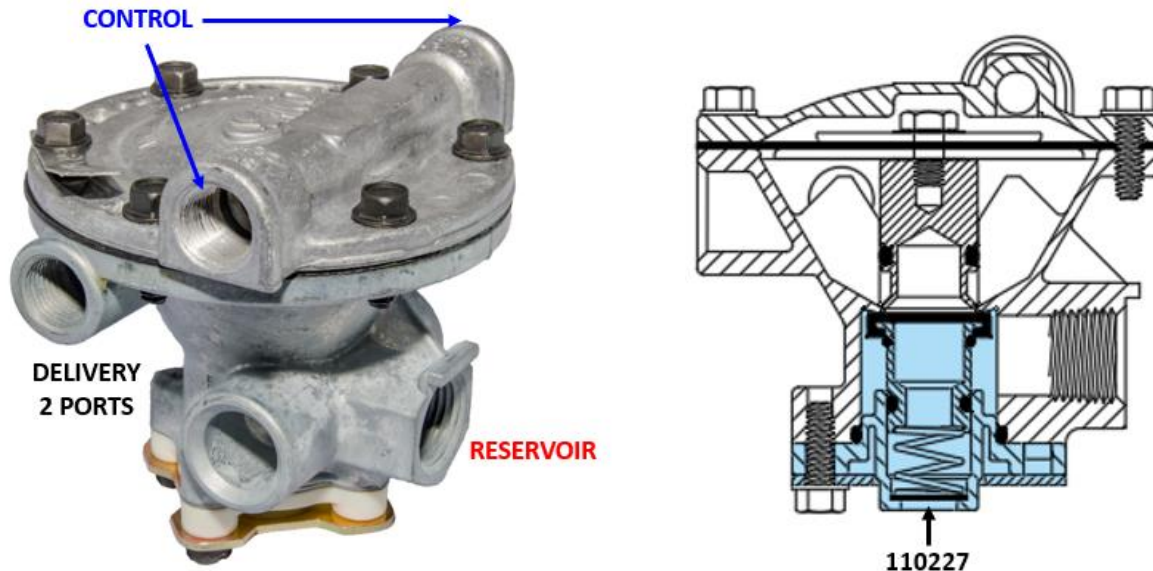


- Commonly used as slow release Check Valve for applications such as lowering air control of the drawbar
- When inlet pressure drops, outlet pressure slowly drops through indicated orifice below
- Bypass Check Valves will not replace standard Check Valves
- Heavy duty metal construction with rubber to metal bonded shuttle for durability
- Dimensions: Height 2.37" – Diameter 1.25" • Approximate Weight: .30 lbs. (See [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)	LENGTH	DIAMETER	ORIFICE SIZE
110183	1/4"	2 3/8"	1 1/4"	.028"
221000	3/4"	3 3/8"	1 1/2"	.030"
220100	1/4"	2 3/8"	1 1/4"	.062"



Service Relay Valves (2 Delivery Ports)

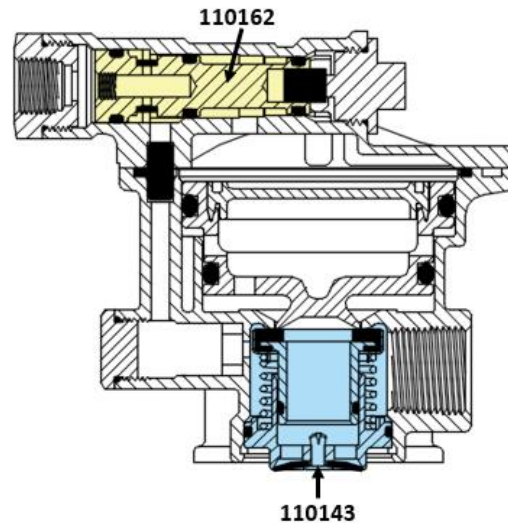
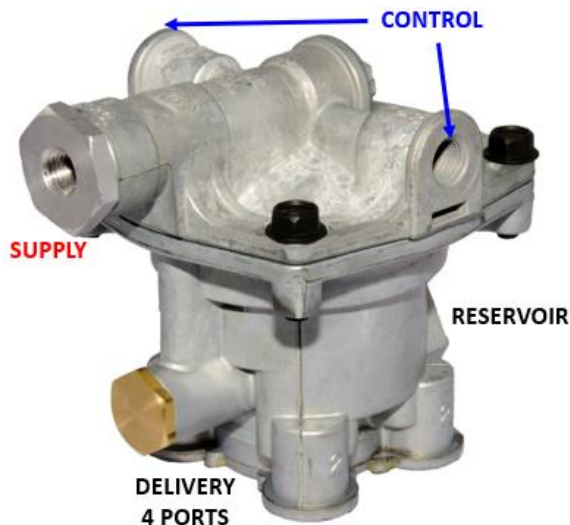


- Primarily used for single axle trailer service brakes or tandem axle by axle trailer brake designs
- Dimensions: Height 4.25" - Width 4.38" – Depth 4.13" • Approximate Weight: 2.62 lbs. (See [Weight Chart](#))
- **PLUG UNIT ASSEMBLY 110227** – No plug unit available for 110507
- **REPAIR KIT 912-5**
- **Mounting Hardware** – See Air Valves & Related Products / Mounting Hardware
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Competitive Part Interchange Guide**

PART NUMBER	PORT SIZES (NPT)			NOMINAL CRACK PRESSURE	COMMENTS
	CONTROL	RESERVOIR	DELIVERY		
110197	3/8"	1/2"	3/8"	4.0 psi	Use 6002 or 6003 nipple
110198	3/8"	1/2"	3/8"	4.0 psi	6002 nipple included
110199	3/8"	1/2"	3/8"	4.0 psi	6003 nipple included
110275	3/8"	1/2"	3/8"	4.0 psi	Frame Bracket Kit 110237 included
110507	3/8"	1/2"	3/8"	6.0 psi	Use 6002 or 6003 nipple



Relay Emergency Valves – Charging (4 Delivery Ports)



• Relay Emergency valves with a ratio feature are considered beneficial when harder than normal stops are required. During hard stops, the ratio feature activates for less than 1/100 of a second so that the valve delivers air quicker than normal to the brake chambers. During normal stops, the ratio feature does not operate.

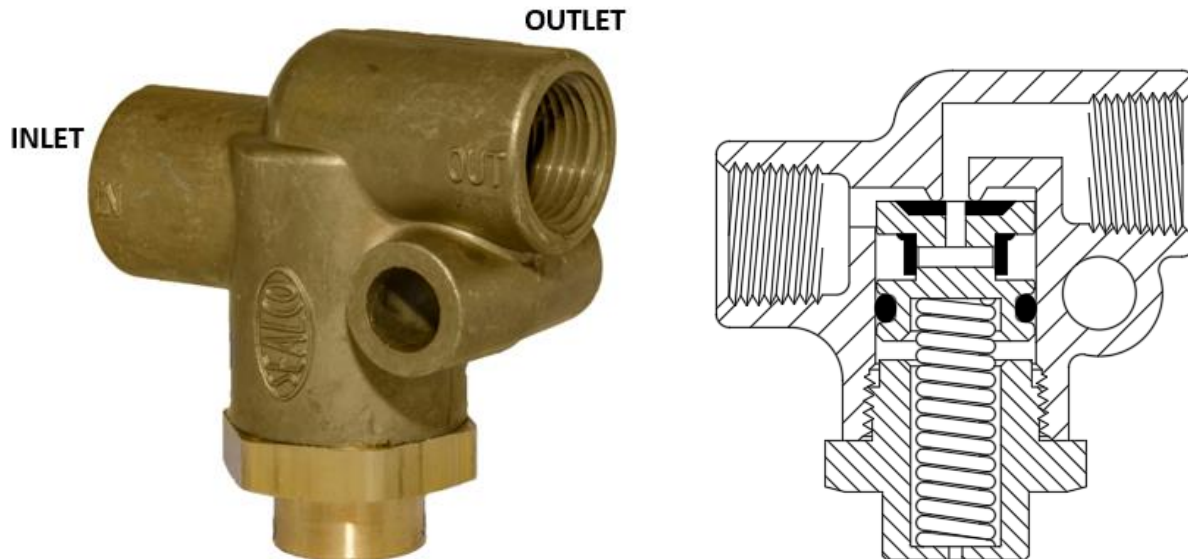
- Do not use ratio feature valves on converter dollies, trailer turn/steer axles or lift axles
- Dimensions: Height 5.28" - Width 4.78" - Depth 5.91" • Approximate Weight: 5.44 lbs. (See [Weight Chart](#))
- [PLUG UNIT ASSEMBLY 110143](#) • [MAJOR REPAIR KIT 110201](#)
- [SPOOL ASSEMBLY 110162](#) • [MINOR SPOOL KIT 110166](#)
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange Guide](#)

* Indicates plated

PART NUMBER	PORT SIZES (NPT)					RATIO FEATURE	NOMINAL CRACK PRESSURE
	SUPPLY	CONTROL	RESERVOIR	DELIVERY	SUP OUT		
110200	1/4"	1/4"	3/4"	3/8"	-	Yes	4.5 psi
110205	3/8"	3/8"	3/4"	3/8"	-	Yes	4.5 psi
110460	1/4"	1/4"	3/4"	3/8"	-	No	4.5 psi
110470	3/8"	3/8"	3/4"	3/8"	-	No	4.5 psi
110475	3/8"	3/8"	3/4"	3/8"	3/8"	No	4.5 psi
110200P *	1/4"	1/4"	3/4"	3/8"	-	Yes	4.5 psi
110205P *	3/8"	3/8"	3/4"	3/8"	-	Yes	4.5 psi
110205M	16mm	16mm	22mm	16mm	-	Yes	4.5 psi



Emergency Brake Pressure Protection Valve

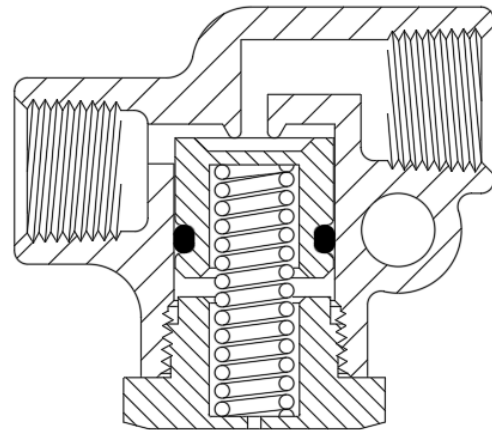


- Commonly used to comply with 70 psi supply line retention rule on converter dollies, turnable axles & air lift axles with service brake chambers
- Used in conjunction with 110338 Relay Emergency Valve or 110376 Emergency Control which allows full reservoir pressure to be applied to Relay Valves to apply parking brakes
- Back flow feature of valve allows for use with pintle chamber to comply with Canadian National Safety Code
- Valve should be installed with vent hole facing downward
- Heavy duty metal construction with rubber to metal bonded moveable seat for durability
- Does not replace traditional Pressure Protection Valves such as 140XXX series
- Complies with all regulations of FMVSS 121 & CMVSS 121
- Dimensions: Height 2.31" - Width 1.18" – Depth 2.25" • Approximate Weight: .50 lbs. (See [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)		NOMINAL CLOSING PRESSURE
	INLET	OUTLET	
110257	3/8"	3/8"	70 psi



Pressure Protection Valves

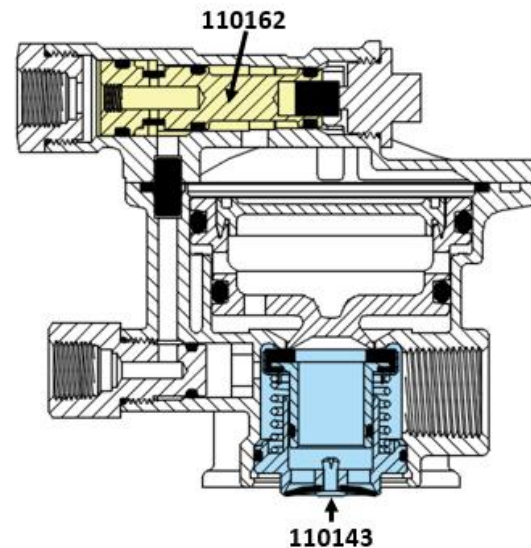
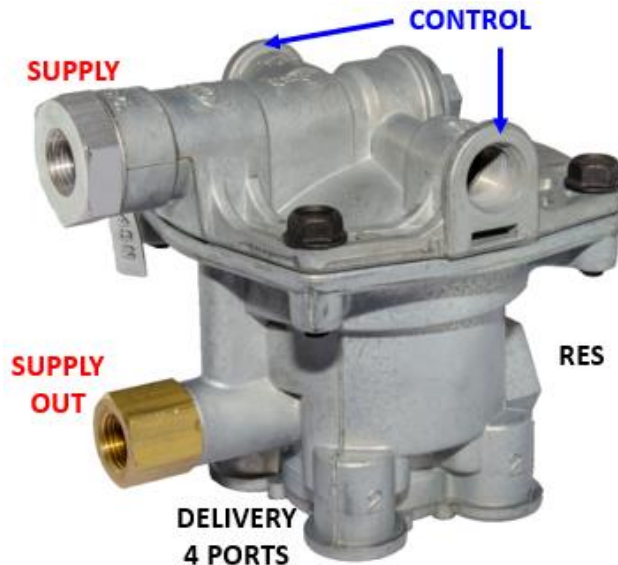


- Commonly used to protect air brake reservoirs from being depleted by the failure of other air accessory items
- Valve opens at approximately 5 psi above nominal closing pressure & allows air to flow through to the Outlet Port
- Valve closes at the nominal psi indicated below
- Valve should be installed with the vent hole facing downward
- Does not interchange with the 140XXX series of Pressure Protection Valves
- Dimensions: Height 2.00" - Width 1.18" - Depth 2.25" • Approximate Weight: .50 lbs. (See [Weight Chart](#))
- [Competitive Part Interchange](#)

PART NUMBER	PORT SIZES (NPT)		NOMINAL CLOSING PRESSURE
	INLET	OUTLET	
110258	3/8"	3/8"	90 psi
110657	3/8"	3/8"	70 psi



Relay Emergency Valve – Non-Charging (4 Delivery Ports)

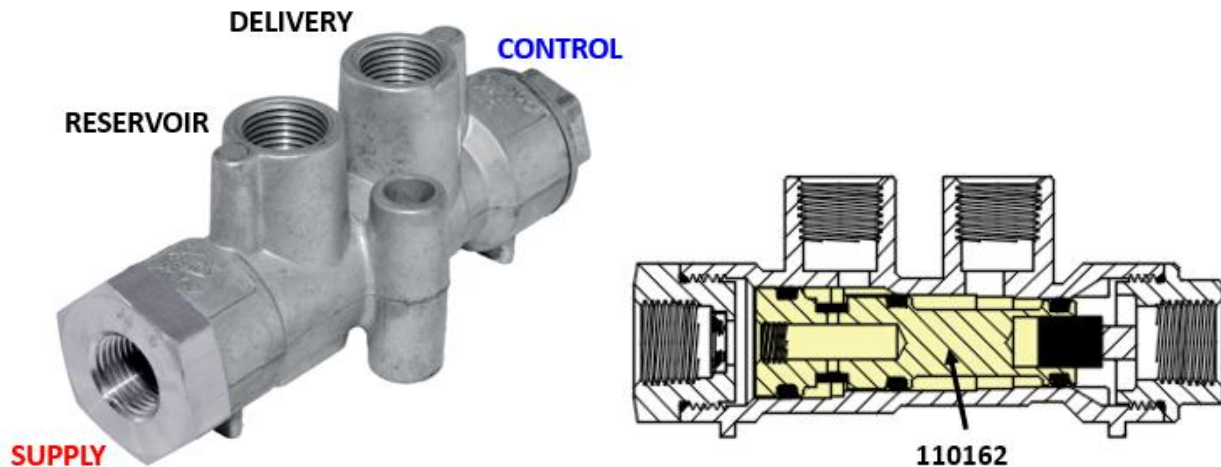


- Commonly used on pre-ABS converter dollies, turnable axles, heavy haulers, ag trailers & air lift axles with service brake chambers
- Must be used in conjunction with 110257 Emergency Brake Pressure Protection Valve to comply with the 70 psi supply line retention rule
- No ratio feature included
- Dimensions: Height 5.28" - Width 4.78" - Depth 5.97" • Approximate Weight: 5.61 lbs. (See [Weight Chart](#))
- [PLUG UNIT ASSEMBLY 110143](#)
- [MAJOR REPAIR KIT 110359](#)
- [SPOOL ASSEMBLY 110162](#)
- [MINOR SPOOL KIT 110166](#)
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange Guide](#)

PART NUMBER	PORT SIZES (NPT)					NOMINAL CRACK PRESSURE
	SUPPLY	CONTROL	RESERVOIR	DELIVERY	SUPPLY OUT	
110338	3/8"	3/8"	3/4"	3/8"	3/8"	4.5 psi



Emergency Control Valve

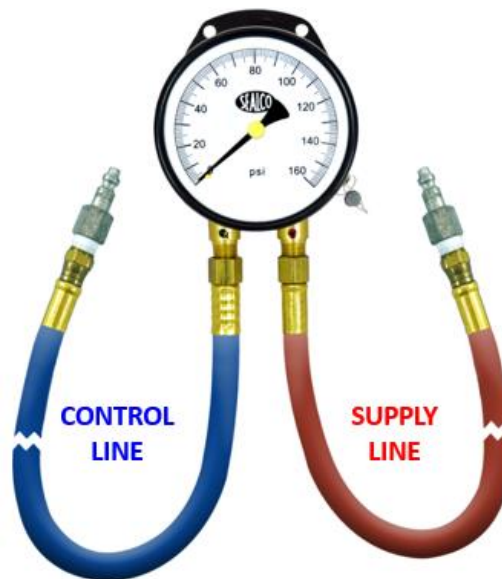


- Commonly used on converter dollies, turnable axles & trailers exempt from spring brake chambers
- Always used in conjunction with 110257 Emergency Brake Pressure Protection Valve to comply with 70 psi supply line retention rule
- Dimensions: Height 2.06" - Width 1.87" - Length 4.67" • Approximate Weight: 1.15 lbs. (See [Weight Chart](#))
- [SPOOL ASSEMBLY 110162](#)
- [MINOR SPOOL KIT 110166](#)
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)			
	SUPPLY	CONTROL	RESERVOIR	DELIVERY
110376	3/8"	3/8"	3/8"	3/8"



Duplex Test Gauge

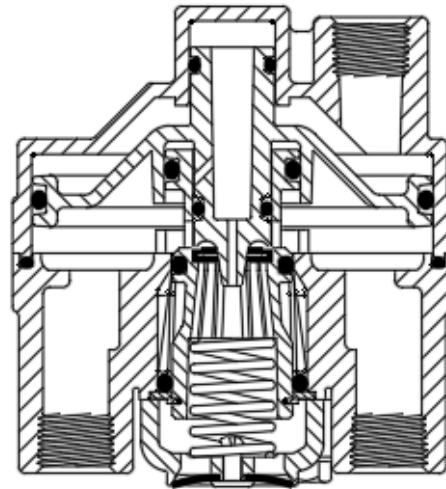
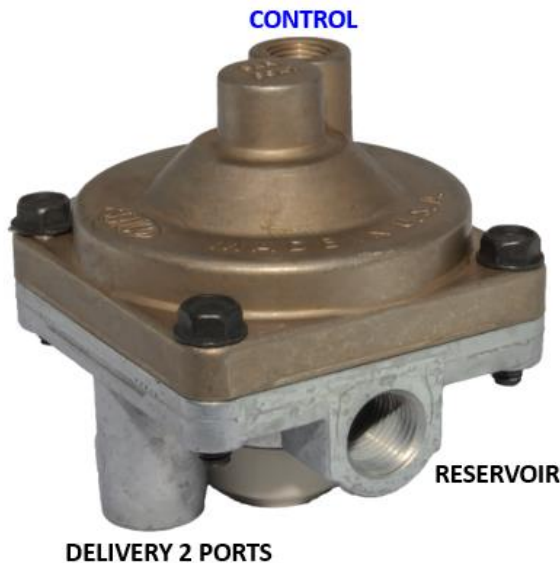


- The Duplex Test Gauge is actually two separate air pressure gauges in one housing
- Each color coded hose connects to a separate indicator needle to show the air pressure being recorded
- The indicator needles use a common dial to allow for easy reading & comparison
- This durable field instrument can be used to check input & output air pressures at various points in the air system
- This tool can identify air line restrictions, air system imbalances, insufficient air supply pressures, trapped air & leaks
- Checking two separate points in an air brake system against each other will indicate both the amounts of pressure delivered to the test points & their relative time of arrival
- This makes the Duplex Test Gauge an invaluable air system troubleshooting device
- A diagnostic manual is included with the Duplex Test Gauge
- The gauge dial is 3.5" in diameter
- Each color coded hose is 35' long to reach connections on the semi-truck &/or trailer combinations

PART NUMBER	COMMENTS
110384	Gauge & Hoses
9007	Gauge Only



Service Relay Valves (2 Delivery Ports)

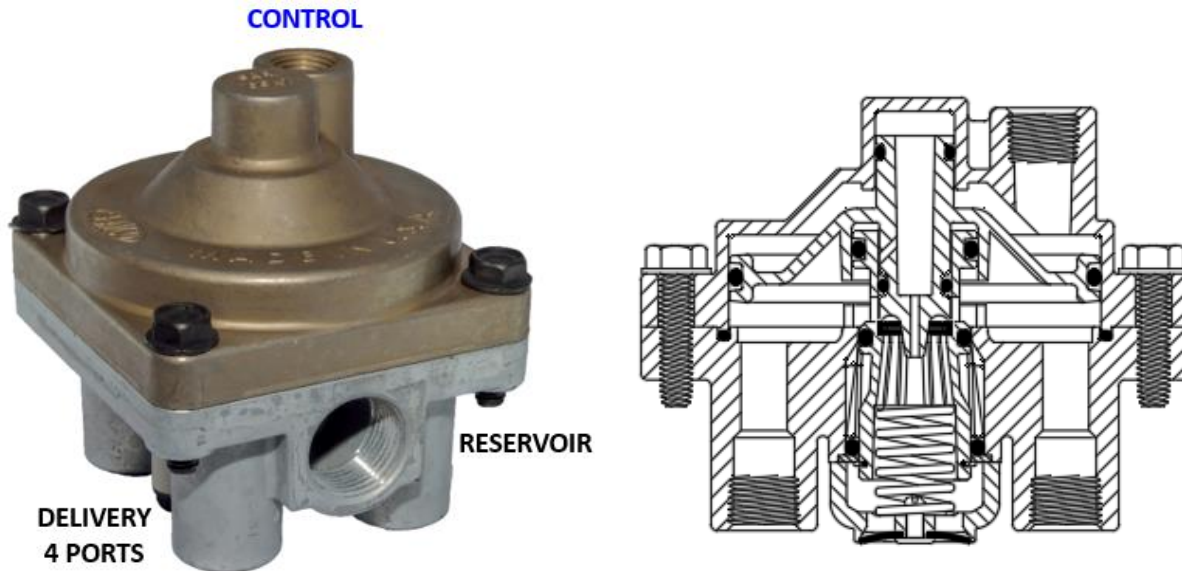


- Nipple mounted 110360 & 110410 are used primarily for single axle trailer service brakes or tandem axle by axle trailer brake configurations
- Frame mounted 110365 & 110412 include the frame bracket kit & are used when nipple mounting is not practical
- 110412 & 110487 may be used as a tractor, straight truck or trailer Service Relay Valve
- Dimensions: Height 4.16" - Width 3.84" - Depth 3.84" • Approximate Weight: 2.56 lbs. (See [Weight Chart](#))
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange Guide](#)

PART NUMBER	PORT SIZES (NPT)			NOMINAL CRACK PRESSURE	MOUNTING INFORMATION
	CONTROL	RESERVOIR	DELIVERY		
110360	3/8"	1/2"	3/8"	1.5 psi	Use 6002 or 6003 nipple
110365	3/8"	1/2"	3/8"	1.5 psi	Frame Bracket Kit 110485 included
110410	3/8"	1/2"	3/8"	4.0 psi	Use 6002 or 6003 nipple
110412	3/8"	1/2"	3/8"	4.0 psi	Frame Bracket Kit 110485 included
110487	3/8"	1/2"	3/8"	5.5 psi	Use 6002 or 6003 nipple



Service Relay Valves (4 Delivery Ports)

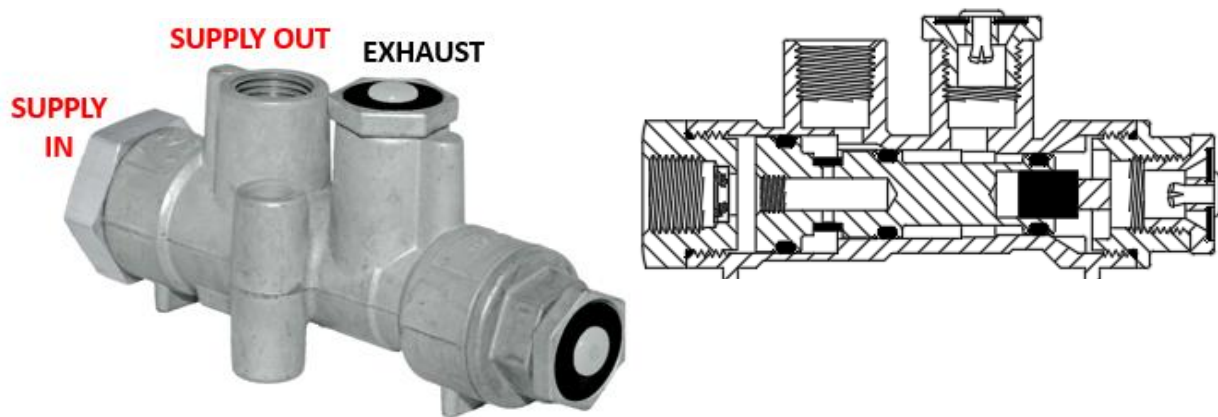


- Nipple mounted 110380 & 110415 are used primarily for tandem axle trailer service brakes with 4 brake chambers
- Frame mounted 110385 & 110416 include the frame bracket kit & are used when nipple mounting is not practical
- Dimensions: Height 4.16" - Width 3.84" - Depth 3.84" • Approximate Weight: 2.96 lbs. (See [Weight Chart](#))
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange Guide](#)

PART NUMBER	PORT SIZES (NPT)			NOMINAL CRACK PRESSURE	MOUNTING INFORMATION
	CONTROL	RESERVOIR	DELIVERY		
110380	3/8"	3/4"	3/8"	1.5 psi	Use 6003 or 6006 nipple
110385	3/8"	3/4"	3/8"	1.5 psi	Frame Bracket Kit 110395 included
110415	3/8"	3/4"	3/8"	4.0 psi	Use 6003 or 6006 nipple
110416	3/8"	3/4"	3/8"	4.0 psi	Frame Bracket Kit 110395 included
110488	3/8"	3/4"	3/8"	5.5 psi	Use 6003 or 6006 nipple
110615	3/8"	3/4"	3/8"	4.0 psi	Use 4 – 2 1/2" long bolts



Anti Back Charge Valve

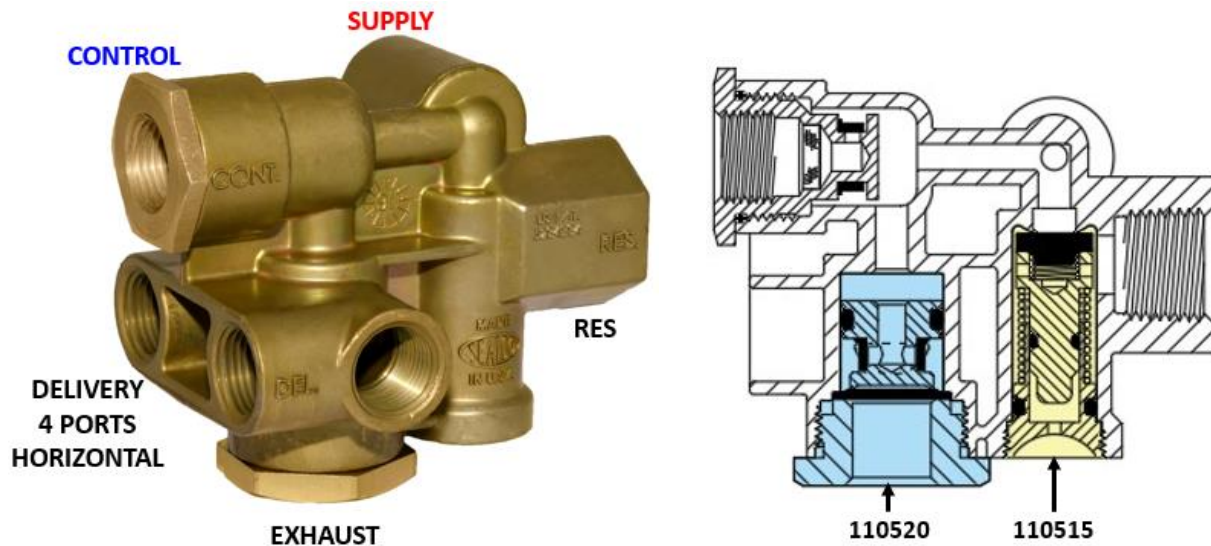


- Commonly used with the rear supply line shut-off cocks on towing trailers or converter dollies
- Prevents back charge (or false charging) of the brake system if supply line shut-off cock on the lead/towing trailer is closed
- Dimensions: Height 2.06" - Width 1.66" - Length 4.61" • Approximate Weight: 1.38 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)	
	SUPPLY IN	SUPPLY OUT
110474	3/8"	3/8"



Spring Brake Control Valves – Spring Brake Priority



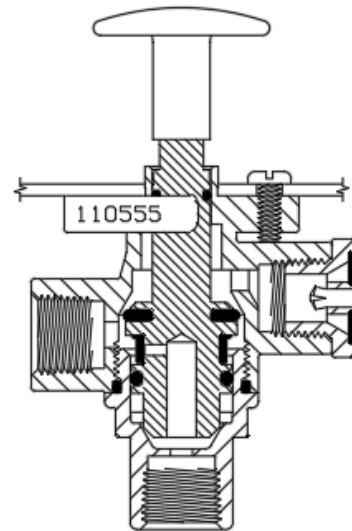
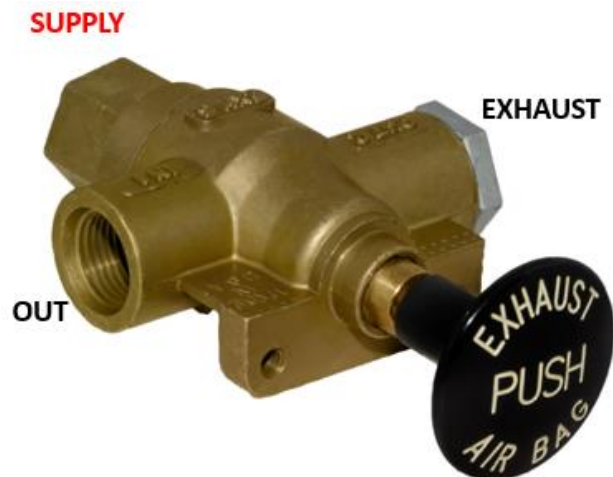
- Spring brake priority systems were approved with the FMVSS 121 rule in October 1992 & are the most common systems on tandem & tridem trailers with spring brake chambers. The valve immediately provides tractor supply air to release the spring brakes & the internal Pressure Protection Valve opens to also fill the air reservoir at approximately 80 psi.

- 4 horizontal delivery ports available, 2 forward facing & 2 side facing
- Designed for use with 2,800 cu in jumbo &/or 1,400 cu in air reservoirs
- Complies with all regulations of FMVSS 121 & CMVSS 121
- Dimensions: Height 3.05" - Width 2.56" - Length 3.71" • Weight: 1.36 lbs.
- **Mounting Hardware** – See Air Valves & Related Products / Mounting Hardware
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **PLUG UNIT ASSEMBLY 110515** for pressure protection portion repairs, yellow shaded area
- **PLUG UNIT ASSEMBLY 110520** for moveable seat portion repairs, blue shaded area
- **REPAIR KIT 110501**
- **Competitive Part Interchange Guide**

PART NUMBER	PORT SIZES (NPT)				COMMENTS
	SUPPLY	CONTROL	RESERVOIR	DELIVERY (4)	
110500	3/8"	3/8"	1/2"	3/8"	
110505	3/8"	3/8"	1/2"	3/8"	Delivery front ports plugged
110510	3/8"	3/8"	1/2"	3/8"	Delivery side ports plugged



Air Bag Control Valve – Automatic Operation

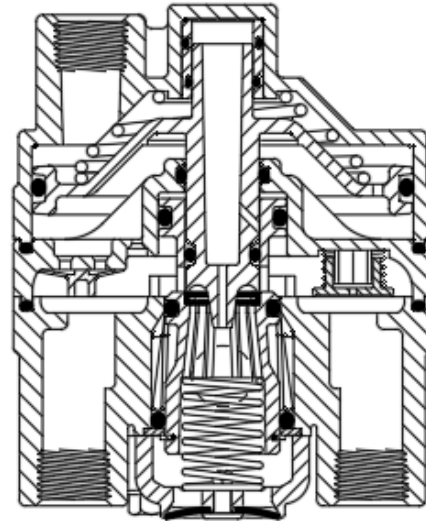


- Commonly used to control the inflation & deflation of suspension air bags
- Normally used with 110587 Pilot Valve
- Operates with all air suspension systems but not recommended for suspensions that exhibit dock walk
- Manually operated to exhaust air from the air ride springs
- Automatically resets to fill the air springs when the trailer parking brakes are released
- Dimensions: Height 4.78" - Width 2.56" - Length 1.75" • Approximate Weight: .87 lbs.
- **13-A KNOB INCLUDED**
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Competitive Part Interchange Guide**

PART NUMBER	PORT SIZES (NPT)		
	SUPPLY	OUTLET	EXHAUST
110555	3/8"	3/8"	3/8"



Control Line Valves – Dollies & Turnable Axles

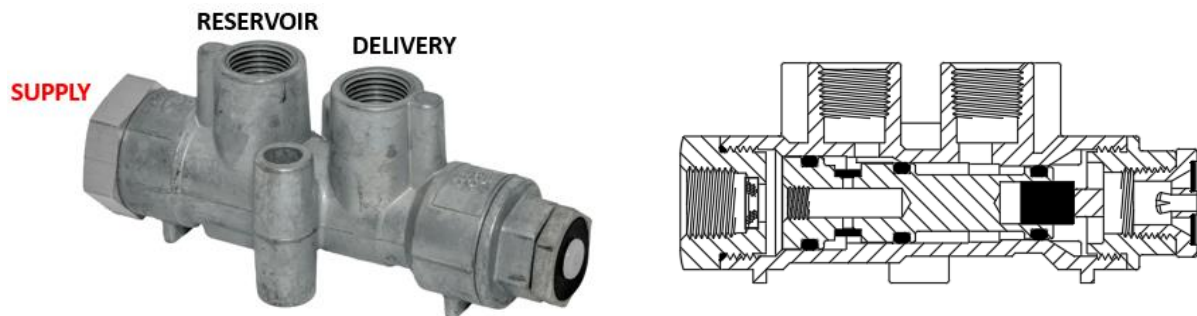


- Primarily used on dollies & turnable axles on full & transfer trailers & on multi-axle semi-trailers with lift/steer axles
- The delivery port labeled Dolly Port of this Control Line Valve is plumbed to the Relay Emergency Valve, Relay Valve or ABS ECU to control the service brakes
- Provides a balanced control line signal for uniform braking of multi-axle combination vehicles
- Prevents premature braking of the turnable axle(s) in combination vehicles for maximum lateral stability while stopping
- Improves the release of service brakes in the tractor/trailer combination eliminating trailer brake drag complaints
- Complies with all regulations of FMVSS 121 & CMVSS 121
- Dimensions: Height 5.88" - Width 4.00" - Depth 3.84" • Approximate Weight: 3.46 lbs. (See [Weight Chart](#))
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)				NOMINAL CRACK PRESSURE	COMMENTS
	CONT	RES	DOLLY	DEL		
110570	3/8"	1/2"	3/8"	3/8"	0.0 psi	Includes Bracket as shown
110571	3/8"	1/2"	3/8"	3/8"	0.0 psi	Includes Bracket reversed
110690	3/8"	1/2"	3/8"	3/8"	0.0 psi	110570 without Bracket
110606	3/8"	1/2"	3/8"	3/8"	0.0 psi	110690 w/ 10200 ½ Check Valve



Emergency Control Drawbar Valve

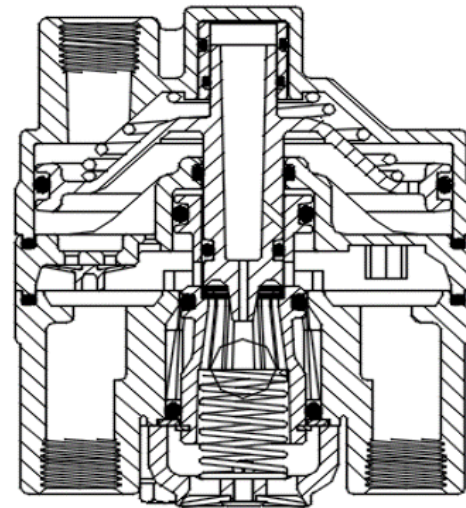
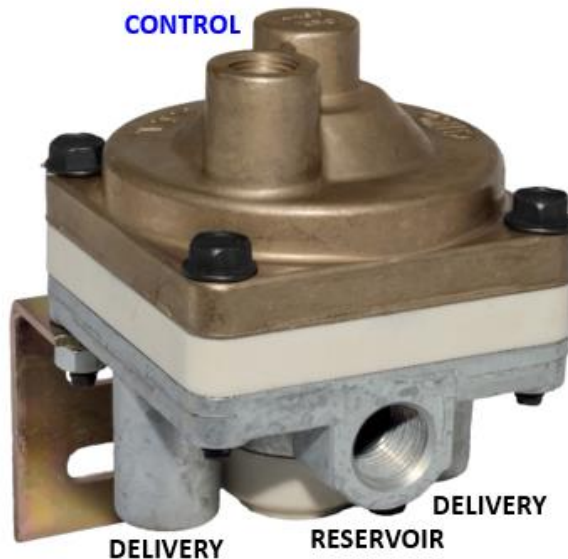


- Commonly used to operate a drawbar on transfer trailers
- Dimensions: Height 2.00" - Width 2.00" - Length 4.92" • Approximate Weight: 1.18 lbs.
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

PART NUMBER	PORT SIZES (NPT)		
	SUPPLY	RESERVOIR	DELIVERY
110576	3/8"	3/8"	3/8"



Control Line Valves

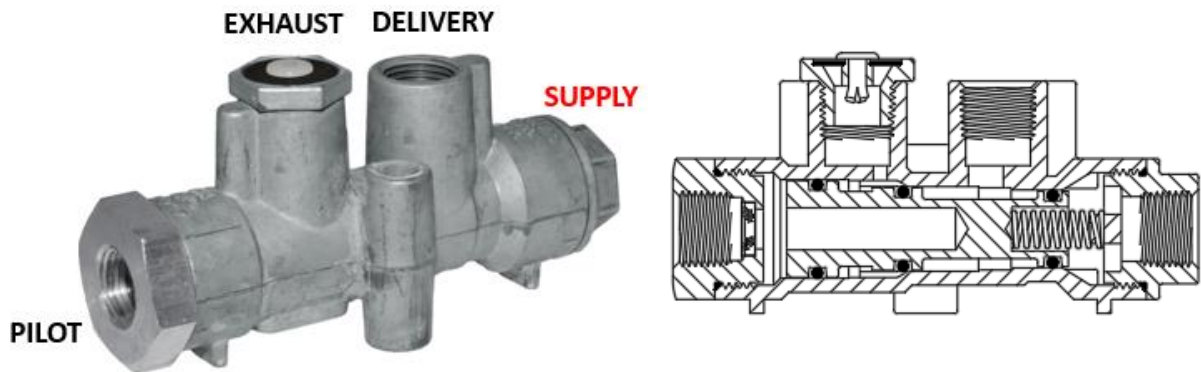


- Primarily used on trailers designed to tow another trailer, long wheel base sliding tandems & specialty trailers with multiple axles
- Provides a balanced control line signal for uniform braking of multi-axle combination vehicles
- Improves application timing of service brakes in rearmost axles of long wheel base tractor/trailer combinations
- Improves the release of service brakes in the tractor/trailer combination eliminating trailer brake drag complaints
- Complies with all regulations of FMVSS 121 & CMVSS 121
- Dimensions: Height 5.87" - Width 3.84" - Depth 4.51" • Approximate Weight: 3.44 lbs. (See [Weight Chart](#))
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

PART NUMBER	PORT SIZES (NPT)			NOMINAL CRACK PRESSURE	COMMENTS
	CONTROL	RESERVOIR	DELIVERY (2)		
110580	3/8"	1/2"	3/8"	0.0 psi	Includes Bracket as shown
110582	3/8"	1/2"	3/8"	0.0 psi	110580 with Bracket on top
110588	3/8"	1/2"	3/8"	0.0 psi	110580 with Bracket at 90° down
110605	3/8"	1/2"	3/8"	0.0 psi	110580 with 10200 1/2 Check Valve
110790	3/8"	1/2"	3/8"	0.0 psi	110580 without Bracket



Air Pilot Valve (Normally Closed)

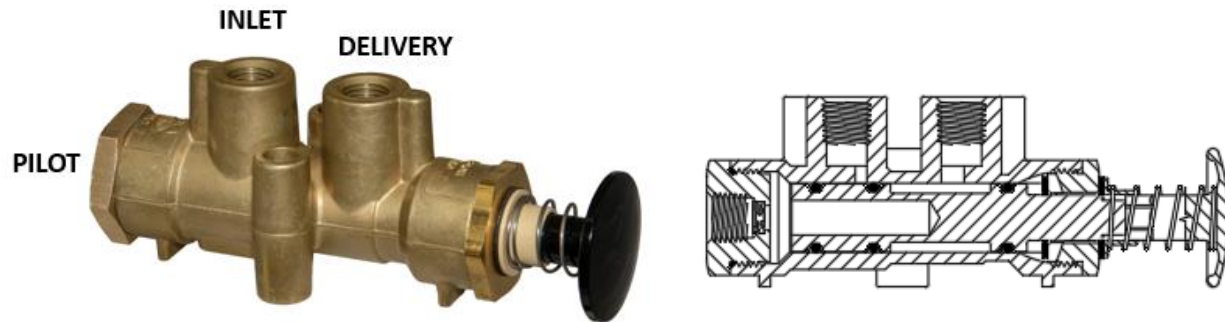


- Pilot air pressure directly from the trailer supply line, or a manual control valve, opens the supply port of the Pilot Valve & allows the supply air pressure to be delivered to air bags, chambers or air cylinders
- Discharging the pilot air closes the Pilot Valve which blocks the delivery of air from the supply air pressure & exhausts the air bags, chambers or air cylinders
- The exhaust port has the 110524 exhaust cap attached
- Dimensions: Height 2.94" - Width 1.88" - Length 4.67" • Approximate Weight: 1.17 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange Guide](#)

PART NUMBER	PORT SIZES (NPT)			
	SUPPLY	DELIVERY	EXHAUST	PILOT
110587	3/8"	3/8"	3/8"	3/8"



Push/Pull Valve With Air Pilot Return



- Commonly used to shut off air accessory when trailer supply line is full (road mode)
- Push/Pull Valve with an air pilot port to return the valve to the off position when pressurized
- Dimensions: Height 2.00" - Width 1.87" - Length 5.81" • Approximate Weight: 1.13 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)			COMMENTS
	INLET	OUTLET	PILOT	
110589WC	1/4"	1/4"	1/4"	Exhausts through body



Pull-Push ACT Control Valve

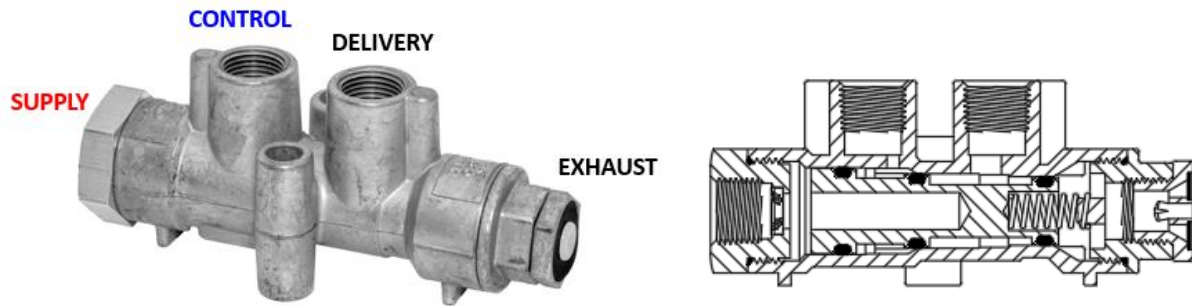


- Commonly used for air operated ramps, sliding tandem lock release, fifth wheel lock release & other air accessories
- Pull to deliver / push to exhaust Hand Valve
- Includes Breather Vent (715152) to prevent contamination from entering exhaust port
- Dimensions: Height 2.50" - Width 2.00" - Length 7.00" • Approximate Weight: 1.24 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)		
	RESERVOIR	ACTUATOR	EXHAUST
110590	1/4"	1/4"	1/4"



Air Pilot Valve – Normally Open

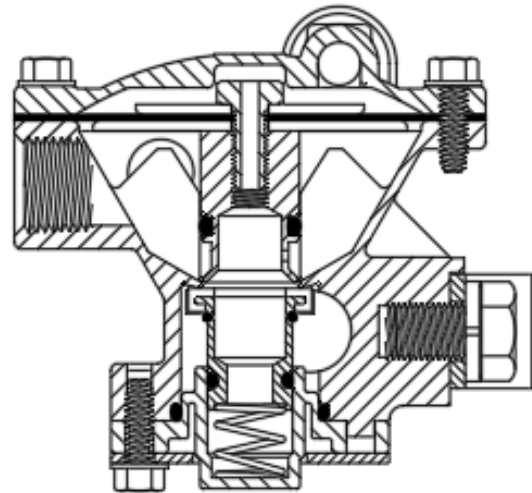
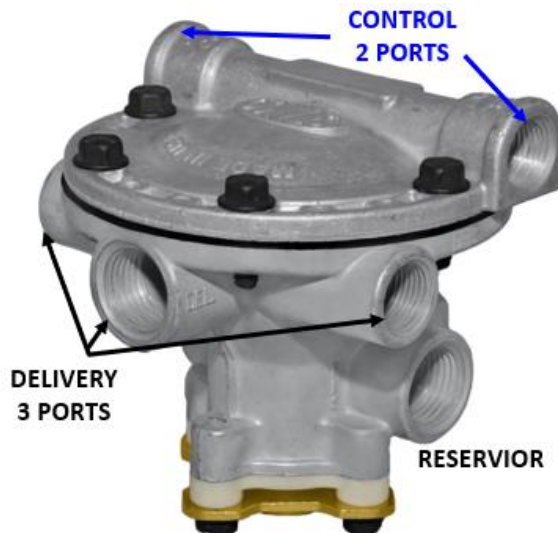


- Commonly used on trailers with one or more lift axles
- Pressurizing the lift axle air spring to lift the axle causes the 110591 valve to close the control port & exhausts the delivery port preventing the service brakes from applying while the axle is in the up position
- Dimensions: Height 2.06" - Width 1.88" - Length 4.92" • Approximate Weight: 1.18 lbs.
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Competitive Part Interchange**

PART NUMBER	PORT SIZES (NPT)		
	SUPPLY	CONTROL	DELIVERY
110591	3/8"	3/8"	3/8"



Fast Fill Air Suspension Valves



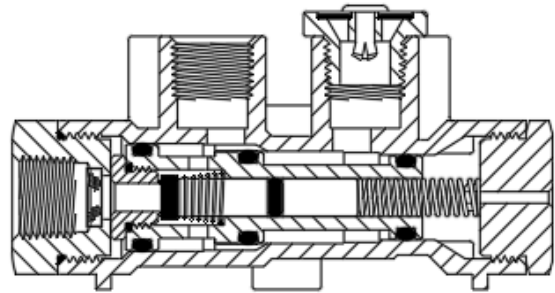
- Commonly used to speed the inflation of air suspension bags
- Uses air pressure from the air reservoir in addition to air from the height control system
- Operates momentarily while inflating the air bags & returns control to the Height Control Valve to fill & exhaust the air bags
- Valve does not exhaust, air bags will exhaust through the Height Control Valve
- Totally automatic operation
- Available as frame mount (110595) or air reservoir & nipple mount (110597)
- Dimensions: Height 4.18" - Width 4.31" - Depth 4.25" • Approximate Weight: 3.06 lbs. (See [Weight Chart](#))
- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

* 110595 has 3 delivery ports, 110597 has 2 delivery ports

PART NUMBER	PORT SIZES (NPT)				COMMENTS
	CONTROL	RESERVOIR	DELIVERY (2)	DELIVERY *	
110595	3/8"	1/2" (2)	3/8"	1/2"	Frame mount - includes bracket
110597	3/8"	1/2" (1)	3/8"	N/A	Nipple mount to air reservoir



Automatic Pilot Valve



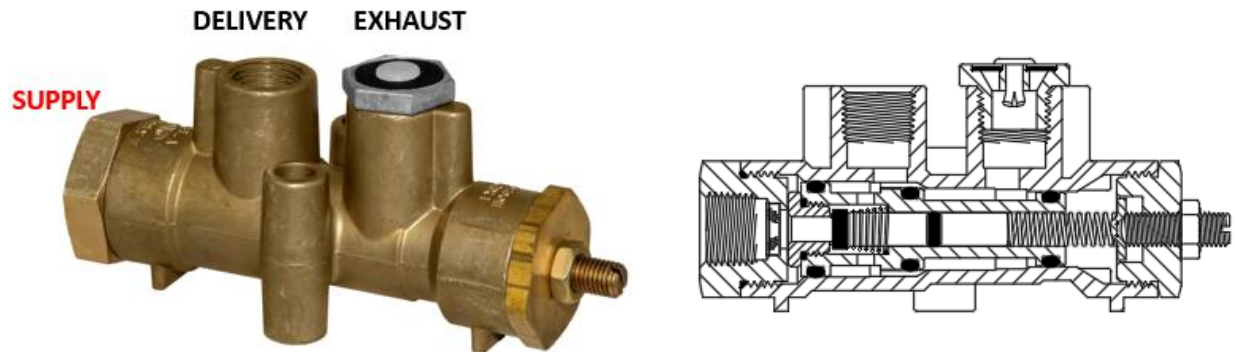
- Commonly used for the operation of lift axle systems in conjunction with a 110587 Air Pilot Valve & 110591 Lift Axle Control Valve or a 523060 Air Piloted 5/2 Valve
- This application works well with any trailer that fully exhausts it's air ride bags when unloading
- When approximately 80 psi is applied to Supply port, the valve opens & delivers the Supply pressure to the Delivery port
- When Delivery pressure is lost, the valve will hold approximately 60 psi in the Supply port
- Dimensions: Height 2.31" - Width 1.88" - Length 4.42" • Approximate Weight: 1.22 lbs.

Air Piping Diagram – See Technical / Air Piping Diagrams

PART NUMBER	PORT SIZES (NPT)		
	SUPPLY	DELIVERY	EXHAUST
110620	3/8"	3/8"	3/8"



Automatic Pilot Valve – Adjustable

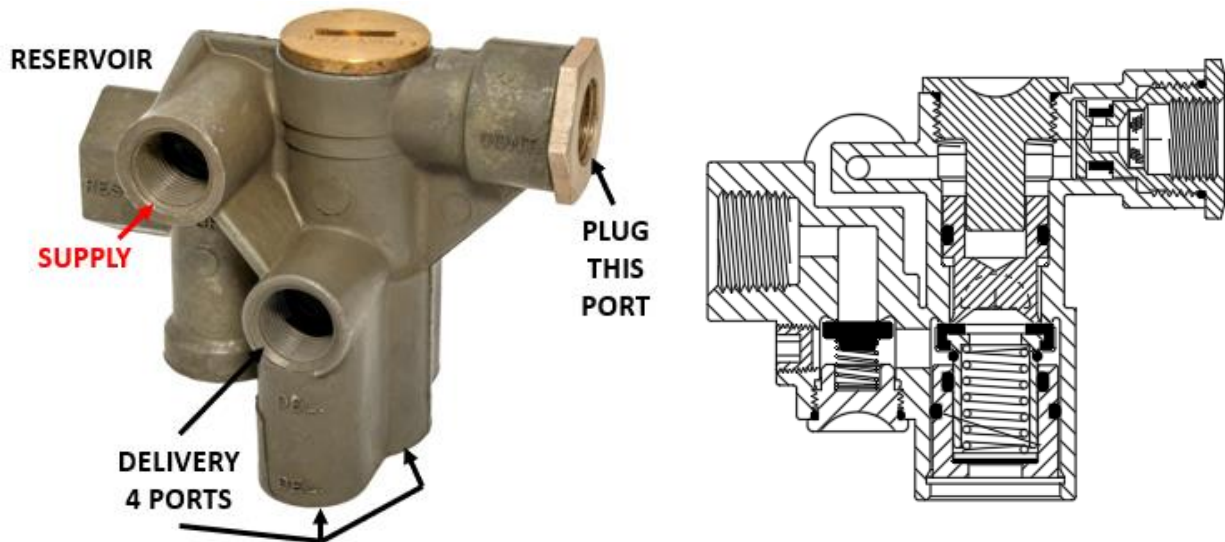


- Commonly used for the operation of lift axle systems in conjunction with a 110587 Air Pilot Valve & 110591 Lift Axle Control Valve or a 523060 Air Piloted 5/2 Valve
- This application works well with any trailer that fully exhausts it's air ride bags when unloading
- When Supply pressure reaches approximately 50 psi, the valve will open & deliver Supply pressure to the Delivery port
- The external adjustment allows for a varying opening pressure from 50 psi to 80 psi
- When the Delivery pressure is lost, the valve will hold approximately 15 psi less than the opening pressure in the Supply port
- Dimensions: Height 2.31" - Width 1.88" - Length 4.42" • Approximate Weight: 1.22 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)			CLOSING PRESSURE SETTING
	SUPPLY	DELIVERY	EXHAUST	
110623	3/8"	3/8"	3/8"	Adjustable



Relay Valve – Severe Service



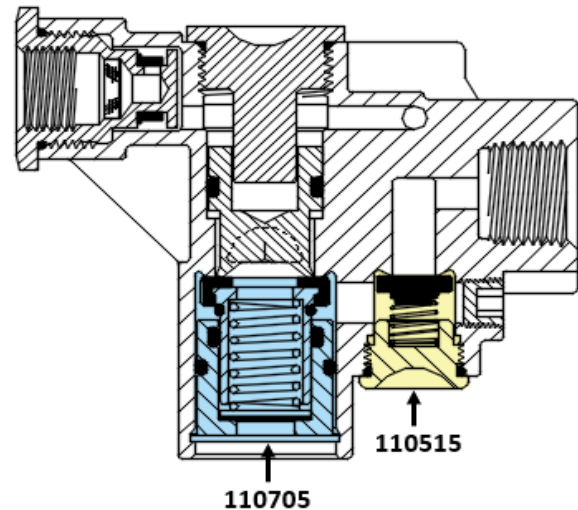
- Used as a Relay Valve for severe cycling applications
- Can be used with Solenoid Valve for harsh cycling service environments
- Improves the release of service brakes in the tractor/trailer combination eliminating trailer brake drag complaints
- Dimensions: Height 3.51" - Width 2.88" - Depth 4.06" • Approximate Weight: 2.16 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	PORT SIZES (NPT)			
	SUPPLY	CONTROL	RESERVOIR	DELIVER (4)
110625	3/8"	3/8"	1/2"	3/8"



Spring Brake Control Valves – Service Reservoir Priority

CONTROL

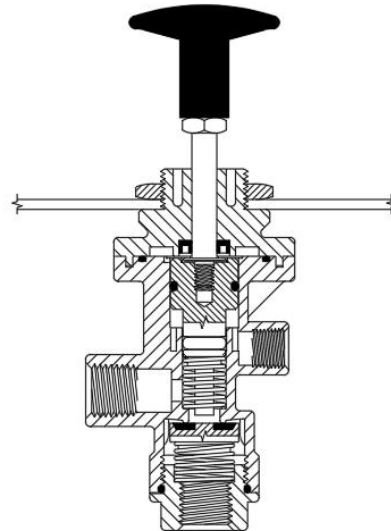


- Service reservoir priority systems simultaneously provide tractor supply air to fill the reservoir(s) & release the spring brakes when trailer reservoir(s) are empty
- When trailer air reservoir is full, valve delivers air to spring brake chambers immediately due to valves relay feature
- 4 delivery ports available, 2 downward facing & 2 side facing
- Designed for use with 2,800 cu in jumbo &/or 1,400 cu in air reservoirs
- Complies with all regulations of FMVSS 121 & CMVSS 121
- Dimensions: Height 3.51" - Width 2.88" - Depth 4.05" • Approximate Weight: 2.16 lbs.
- **Mounting Hardware** – See Air Valves & Related Products / Mounting Hardware
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **PLUG UNIT ASSEMBLY 110515** for pressure protection portion repairs, yellow shaded area
- **PLUG UNIT ASSEMBLY 110705** for moveable seat portion repairs, blue shaded area
- **Competitive Part Interchange Guide**

PART NUMBER	PORT SIZES (NPT)			
	SUPPLY	CONTROL	RESERVOIR	DELIVERY (4)
110700	3/8"	3/8"	1/2"	3/8"



Hand Control Valve – Auto Reset



- Commonly used for locking mechanisms such as sliding fifth wheel plates
- Delivers air pressure only when the knob is held in by the operator
- Once the knob is released, all pressure in the delivery will be vented
- Dimensions: Height 5.50" - Width 2.43" - Depth 2.00" • Approximate Weight: .78 lbs. (See [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

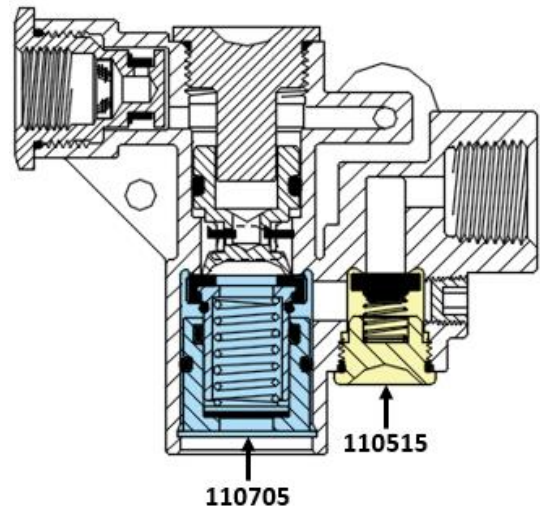
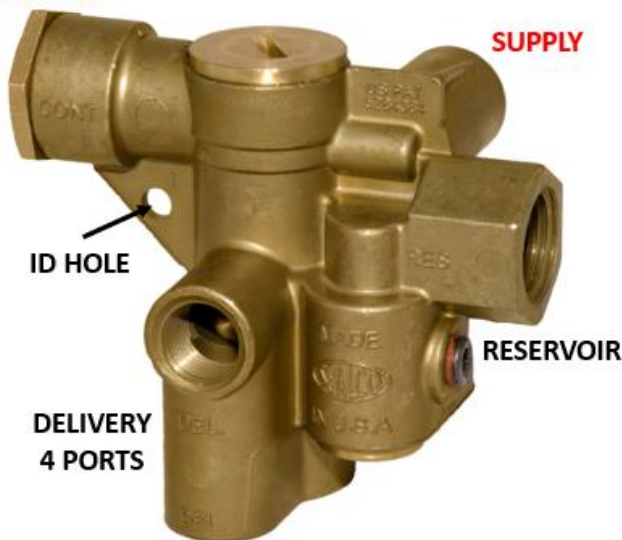


PART NUMBER	KNOB	PORT SIZES (NPT)			COMMENTS
		INLET	OUTLET	EXHAUST	
110770	13	1/4"	1/4"	1/8"	-
110771	13	1/4"	1/4"	1/8"	Includes Weather Boot Kit
110770-2	None	1/4"	1/4"	1/8"	-



Spring Brake Control Valves – Spring Brake Priority

CONTROL



- Spring brake priority systems were approved with the FMVSS 121 rule in October 1992 & are the most common systems on tandem & tridem trailers with spring brake chambers. The valve immediately provides tractor supply air to release the spring brakes & the internal Pressure Protection Valve opens to also fill the air reservoir at approximately 80 psi.

- This valve also releases the spring brakes faster when the trailer air reservoirs are full because it uses both tractor supply air & trailer reservoir air pressure due to the valves relay feature

- 4 delivery ports available, 2 downward facing & 2 side facing

- Designed for use with 2,800 cu in jumbo &/or 1,400 cu in air reservoirs

- Complies with all regulations of FMVSS 121 & CMVSS 121

- Dimensions: Height 3.51" - Width 2.88" - Depth 4.05" • Weight: 2.13 lbs.

- **Mounting Hardware** – See Air Valves & Related Products / Mounting Hardware

- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable

- **PLUG UNIT ASSEMBLY 110515** for pressure protection portion repairs, yellow shaded area

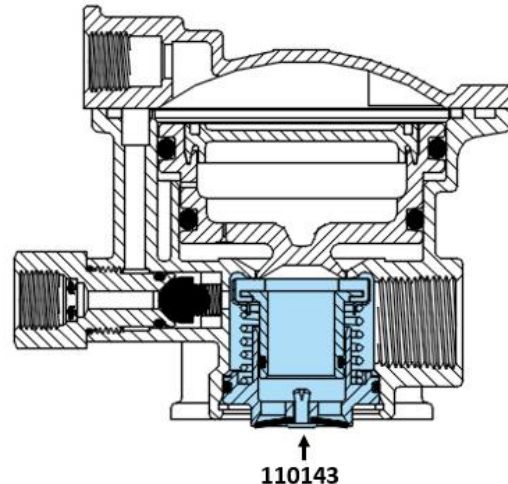
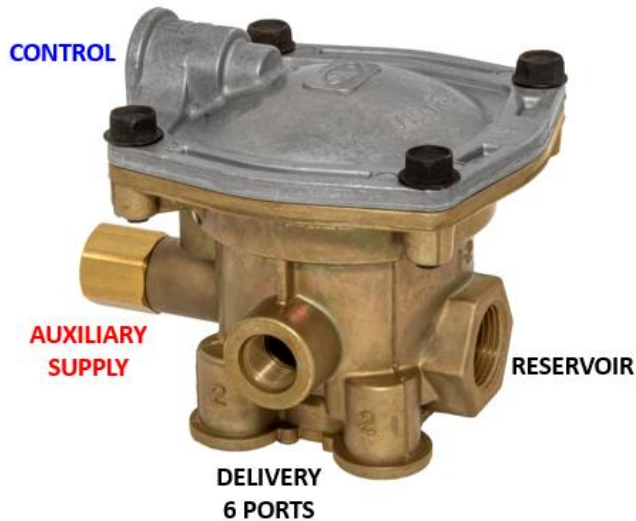
- **PLUG UNIT ASSEMBLY 110705** for moveable seat portion repairs, blue shaded area

- **Competitive Part Interchange Guide**

PART NUMBER	PORT SIZES (NPT)			
	SUPPLY	CONTROL	RESERVOIR	DELIVERY (4)
110800	3/8"	3/8"	1/2"	3/8"



Service Relay Valves (6 Delivery Ports)

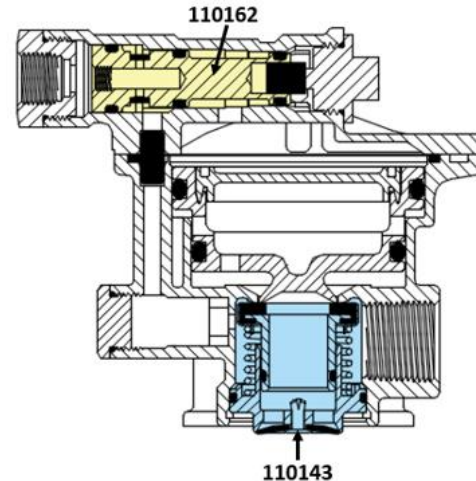
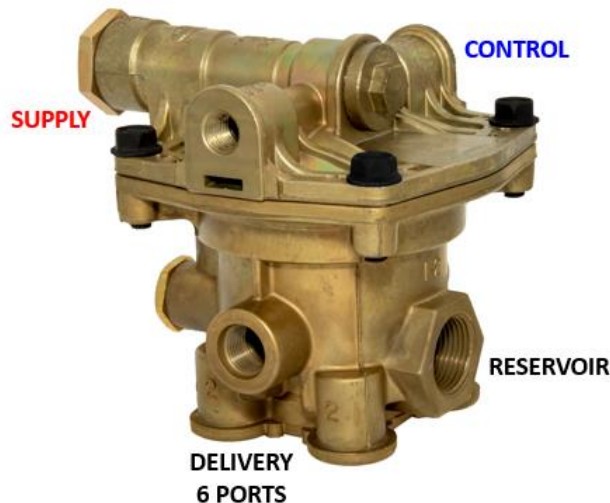


- The ratio feature is considered a benefit in hard stop situations & refers to the relationship between the control air pressure to the valve & the delivered air pressure from the valve to the service brake chambers
- During normal stopping a 1:1 ratio exists between the control & delivered air pressures. In a hard stop the ratio momentarily changes 1:1.5 until valve lap off occurs & the 1:1 ratio is restored. This change takes place in less than 1/100 of a second
- Do not use ratio feature valves on converter dollies, trailer turnable axles or lift axles
- Dimensions: Height 4.75" - Width 4.72" - Depth 5.63" • Approximate Weight: 4.35 lbs. (See [Weight Chart](#))
- **PLUG UNIT ASSEMBLIES 110143**
- **MINOR REPAIR KIT 110005** • **MAJOR REPAIR KIT 110118** • **AUXILIARY SUPPLY PORT REPAIR KIT 110673**
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Competitive Part Interchange Guide**

PART NUMBER	PORT SIZES (NPT)				RATIO FEATURE	NOMINAL CRACK PRESSURE
	AUXILIARY SUPPLY	CONTROL	RESERVOIR	DELIVERY		
116139	3/8"	3/8"	3/4"	3/8"	Yes	4.5 psi
116450	3/8"	3/8"	3/4"	3/8"	No	4.5 psi
116451	Capped	3/8"	3/4"	3/8"	No	4.5 psi
116451P	3/8"	3/8"	3/4"	3/8"	No	4.5 psi
116600	Capped	3/8"	3/4"	3/8"	Yes	4.5 psi
116600P	Capped	3/8"	3/4"	3/8"	Yes	4.5 psi



Relay Emergency Valves – Charging (6 Delivery Ports)



- Relay Emergency valves with a ratio feature are considered beneficial when harder than normal stops are required. During hard stops, the ratio feature activates for less than 1/100 of a second so that the valve delivers air quicker than normal to the brake chambers. During normal stops, the ratio feature does not operate.

- Do not use ratio feature valves on converter dollies, trailer turnable axles or lift axles

- Dimensions: Height 5.28" - Width 4.78" - Depth 5.91" • Approximate Weight: 7.50 lbs. (See [Weight Chart](#))

- [PLUG UNIT ASSEMBLY 110143](#) • [MAJOR REPAIR KIT 110201](#)

- [SPOOL ASSEMBLY 110162](#) • [MINOR SPOOL KIT 110166](#)

- [Mounting Hardware](#) – See Air Valves & Related Products / Mounting Hardware

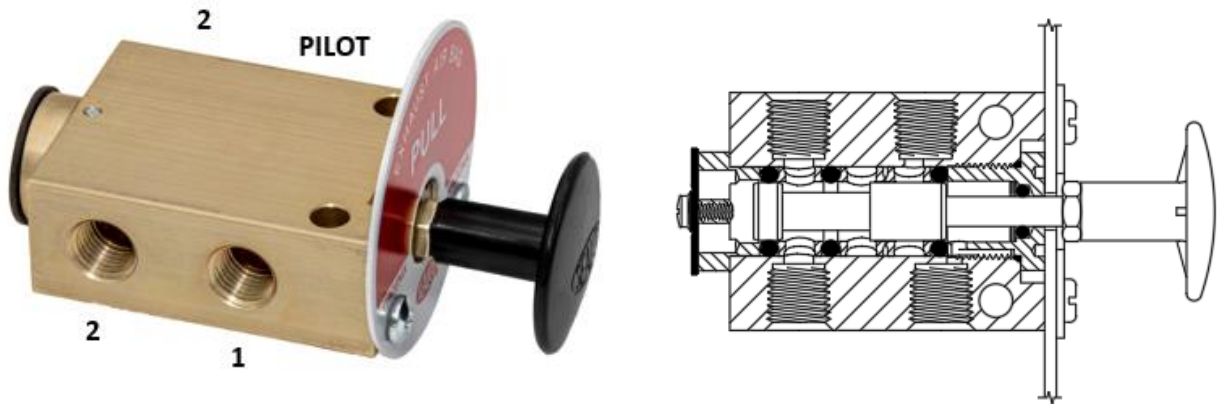
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

* Plated

PART NUMBER	PORT SIZES (NPT)				RATIO FEATURE	NOMINAL CRACK PRESSURE
	SUPPLY	CONTROL	RESERVOIR	DELIVERY		
116200	1/4"	1/4"	3/4"	3/8"	Yes	4.5 psi
116200P	1/4"	1/4"	3/4"	3/8"	Yes	4.5 psi
116205	3/8"	3/8"	3/4"	3/8"	Yes	4.5 psi
116205M	16mm	16mm	22mm	16mm	Yes	4.5 psi



Suspension Exhaust Valve



- Normally placed in line in between the Height Control Valve & the air springs
- Allows high speed exhausting of air suspensions, two delivery ports for faster release
- Built in pilot port can be used to reset the valve to the closed position when pressurized. When the pilot port is connected to the supply line, the valve will auto reset & fill the air ride springs when the parking brakes are released
- The valve includes a special breather for the pilot port that should be used when not connected to the supply line
- Dimensions: Height 4.75" - Width 2.00" - Depth 1.00" • Approximate Weight: .46 lbs. (See [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

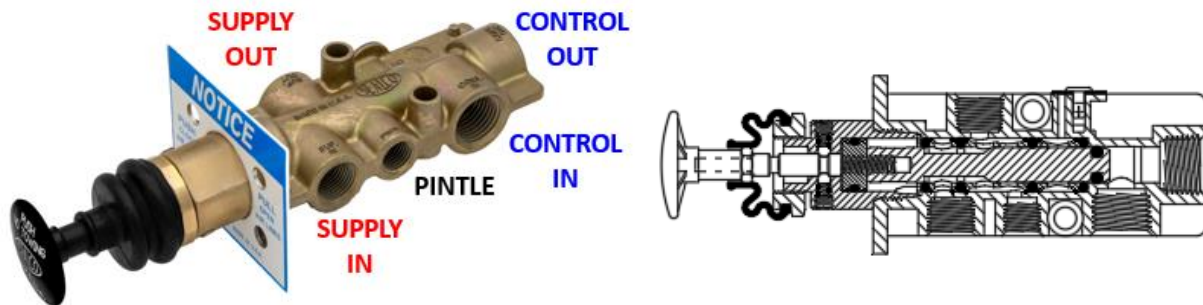


8179 NAMEPLATE

PART NUMBER	PORT SIZES (NPT)			NAME PLATE	KNOB	MOUNTING
	PORT 1	PORT 2	PILOT			
132000	1/4"	1/4"	1/4"	8179	13	2 Hole
132100	1/4"	1/4"	1/4"		13	1 Hole Weather Cap



Dual Line Valve



- Commonly used on air braked vehicles designed to tow other air braked vehicles
- Pushing the knob in cuts off air flow to the rear gladhands while pulling the knob out allows air to flow to the rear gladhands & the air braked vehicle being towed preventing false charging
- The optional pintle port allows the air flow to the pintle hook to be controlled as well
- Dimensions: Height 2.50" - Width 1.75" - Length 7.00" • Approximate Weight: 1.19 lbs.
- **Mounting Hardware** – See Air Valves & Related Products / Mounting Hardware
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable

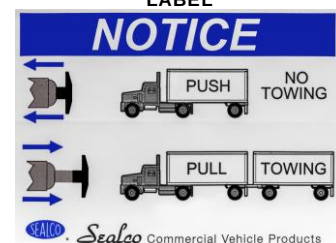
KNOB



NAMEPLATE



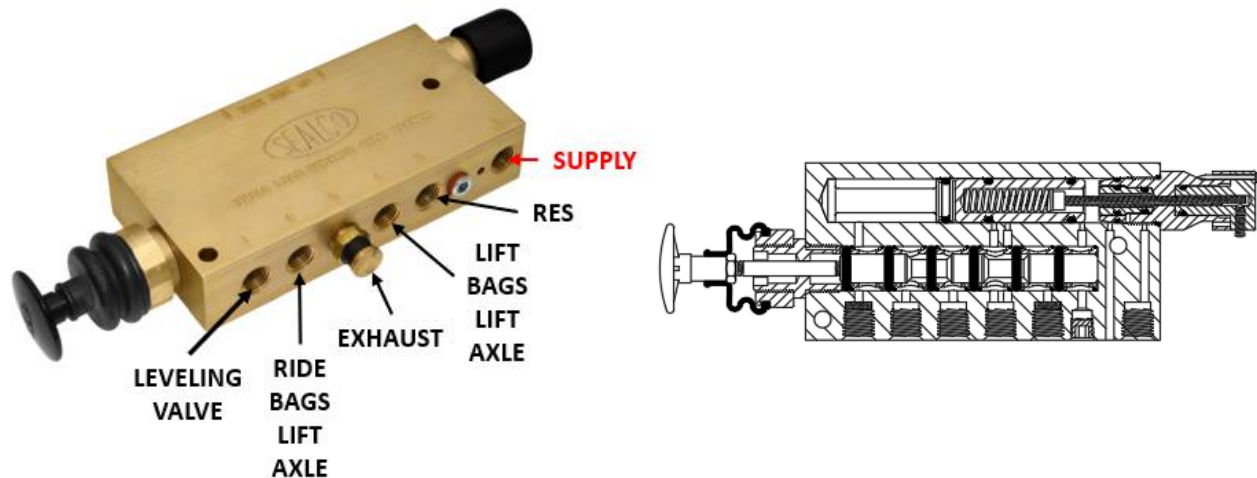
LABEL



PART NUMBER	PORT SIZES (NPT)				
	SUP IN	SUP OUT	CONT IN	CONT OUT	PINTLE
134000	3/8"	3/8"	1/2"	1/2"	1/4"



Load Sensing Axle System

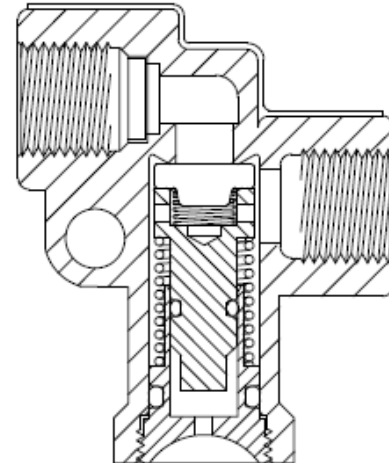
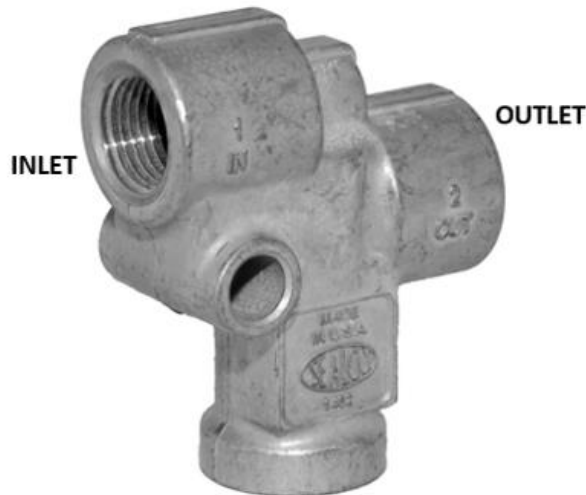


- Commonly used on air braked trailers to deploy lift axles with air suspension when trailer is loaded
- Prevents the overloading of the trailer's fixed down axles if operator neglects to lower the lift axle(s)
- The system monitors the load by sensing the pressure in the trailer's air suspension
- Lift axle(s) deployment range of trigger pressure from 25 to 75 psi
- Dimensions: Height 3.00" - Width 1.25" - Depth 10.08" • Approximate Weight: 2.97 lbs. (See [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

PART NUMBER	ALL PORT SIZES (NPT)	KNOB	COMMENTS
138000	1/4"	13-42	715152 Exhaust Cap installed
138010	1/4"	13-42	715152 Exhaust Cap installed
138190	1/4"	0190	715152 Exhaust Cap installed



Pressure Protection Valves

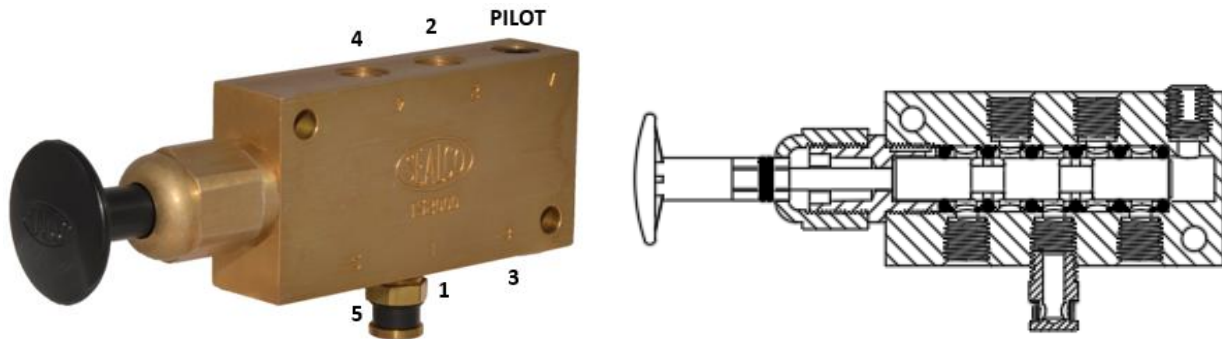


- Commonly used to protect & isolate air brake system reservoirs, & the auxiliary air devices that connect to them for their source of air, in the event that one or the other fails
- Valve closes at the nominal psi indicated below & opens at approximately 10 psi more than closing pressure
- Valves include an internal filter & positive one-way check valve
- Valve should be installed with vent facing downwards
- Complies with all regulations of FMVSS 121 & CMVSS 121
- Dimensions: Height 2.52" - Width 1.13" - Depth 2.08" • Approximate Weight: .41 lbs. (see [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **REPAIR KITS** – See list of Repair Kits below

PART NUMBER	PORT SIZES (NPT)		NOMINAL CLOSING PRESSURE	REPAIR KIT
	INLET	OUTLET		
140200	3/8"	3/8"	50 PSI	140201
140270	3/8"	3/8"	60 PSI	140271
140280	3/8"	3/8"	70 PSI	140281
140290	3/8"	3/8"	80 PSI	140291
140300	1/4"	1/4"	50 PSI	140201
140370	1/4"	1/4"	60 PSI	140271
140380	1/4"	1/4"	70 PSI	140281
140390	1/4"	1/4"	80 PSI	140291
140680	3/8"	1/4"	70 PSI	140281



Directional Control Valves – 5 Port / 2 Position Manual



- Commonly used to operate lift axles, gates, cylinder, locking actuators & other air operated devices

- Includes an exhaust breather in port 1 (715152)

- Single hole mount in panel up to 3/8" or two hole body mount

- Designed specifically for the heavy duty transportation industry

- Breathable Plug installed in Pilot Port which may be removed to act as air piloted auto reset

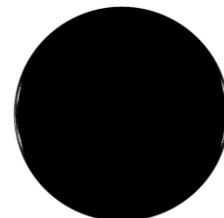
- Dimensions: Height 2.00" - Width 1.00" - Length 3.90" • Approximate Weight: 1.00 lbs. (See [Weight Chart](#))

- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

- [Competitive Part Interchange](#)



13 (BLACK PLASTIC)

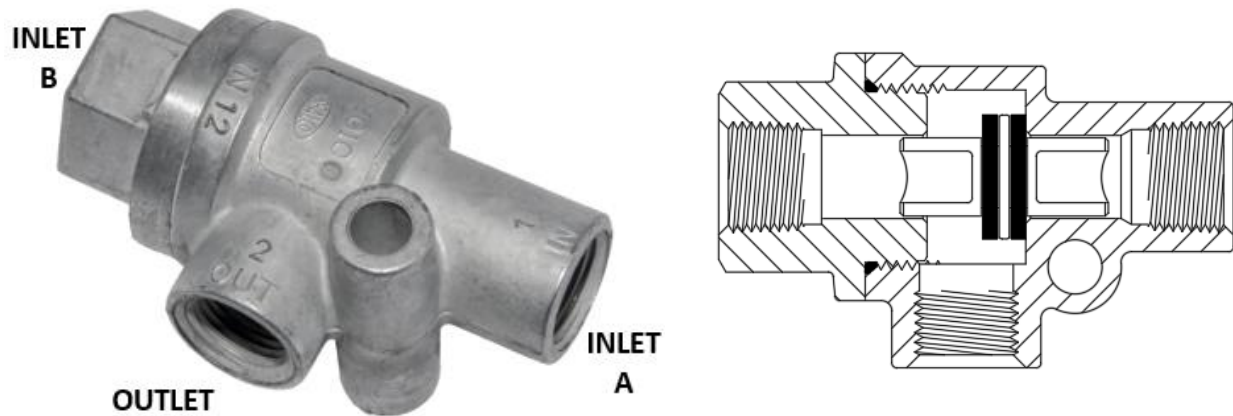


0190 (BLACK METAL)

PART NUMBER	ALL PORT SIZES (NPT)	KNOB
152000	1/4"	13
152010	1/4"	0190



Two – Way Check Valve

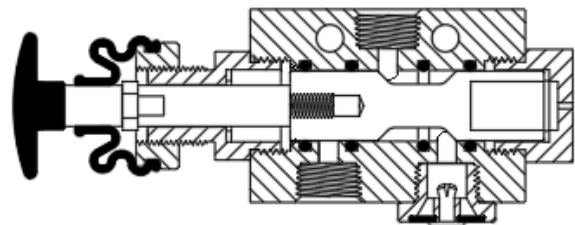


- Commonly used for applications with dual inlet pressures to a single outlet pressure
- Allows the greater air pressure from either inlet port to flow through the outlet port
- Dimensions: Height 3.25" - Width 1.62" - Depth 2.00" • Approximate Weight .61 lbs.
- [REPAIR KIT 320105](#)
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange Guide](#)

PART NUMBER	PORT SIZES (NPT)		
	INLET A	INLET B	OUTLET
320100	3/8"	3/8"	3/8"



Directional Control Valves – 3 Port / 2 Position Manual



- Commonly used to operate suspension dump, gates, cylinders, locking actuators & other air operated devices

- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application

- Corrosion resistant plated body with clear anodized internal spool

- Specially engineered O-rings designed to function in extreme cold temperatures to -40C

- Single hole mount in panels up to 3/8" or two-hole body mount

- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM

- Designed specifically for heavy duty transportation industry

- **Dimensions: Height 2.25" - Width 1.25" - Length 6.42"** • **Approximate Weight: .84 lbs. (See [Weight Chart](#))**

- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable

- [Competitive Part Interchange](#)

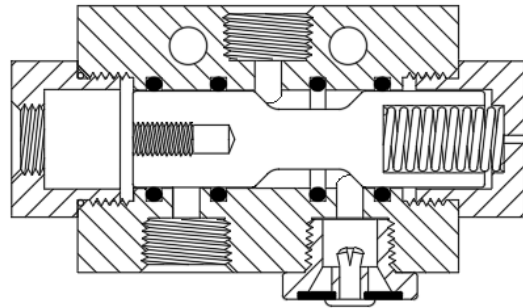


13-42 (BLACK PLASTIC)

PART NUMBER	ALL PORT SIZES (NPT)	KNOB	COMMENTS
321060	3/8"	13-42	Without Boot
321160	3/8"	13-42	With Boot



Directional Control Valve – 3 Port / 2 Position Air Pilot

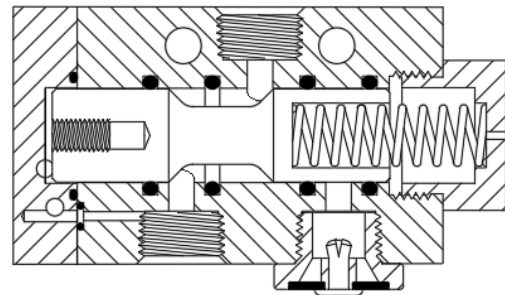


- Commonly used to operate suspension dump, gates, cylinders, locking actuators & other air operated devices
- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application
- Corrosion resistant plated body with clear anodized internal spool
- Specially engineered O-rings designed to function in extreme cold temperatures to -40C
- Two-hole body mount
- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM
- Designed specifically for heavy duty transportation industry
- **Dimensions: Height 2.25" - Width 1.25" - Length 3.85" • Approximate Weight: .695 lbs.**
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Competitive Part Interchange**

PART NUMBER	ALL PORT SIZES (NPT)
323060	3/8"



Directional Control Valve – 3 Port / 2 Position Valve Solenoid (Normally Open)

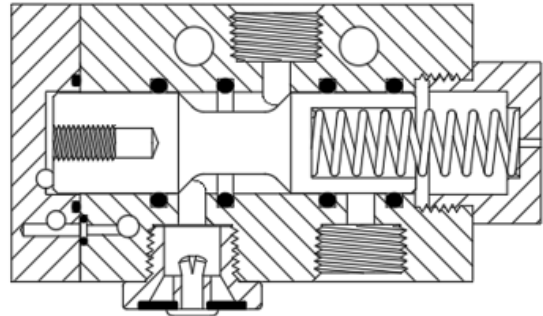


- Commonly used to operate, gates, cylinders, locking actuators & other air operated devices
- Solenoid operated with override switch, two 19" 20-gauge primary wires for connection
- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application
- Corrosion resistant plated body with clear anodized internal spool
- Two-hole body mount
- Specially engineered O-rings designed to function in extreme cold temperatures to -40C
- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM
- Designed specifically for heavy duty transportation industry
- Dimensions: Height 2.25" - Width 1.25" - Length 3.92" • Approximate Weight: 0.98 lbs.
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Competitive Part Interchange**

PART NUMBER	ALL PORT SIZES (NPT)
325061	3/8"



Directional Control Valve – 3 Port / 2 Position Valve Solenoid (Normally Closed)

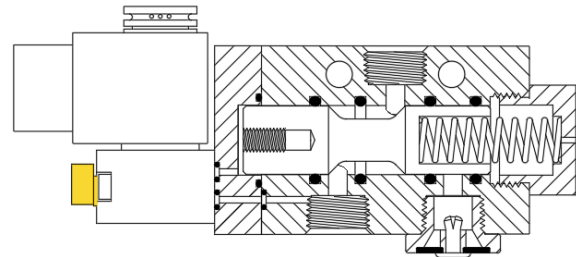


- Commonly used to operate suspension dump, gates, cylinders, locking actuators & other air operated devices
- Solenoid operated with override switch, two 19" 20-gauge primary wires for connection
- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application
- Corrosion resistant plated body with clear anodized internal spool • Two-hole body mount
- Specially engineered O-rings designed to function in extreme cold temperatures to -40C
- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM
- Designed specifically for heavy duty transportation industry
- Dimensions: Height 2.25" - Width 1.25" - Length 3.92" • Approximate Weight: 1.075 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

PART NUMBER	ALL PORT SIZES (NPT)
325063	3/8"



Directional Control Valve – 3 Port / 2 Position Solenoid (Normally Open)



- Commonly used to operate gates, cylinders, locking actuators & other air operated devices

- Solenoid operated with override switch, connected with heavy duty bayonet connector with two conductor 14 gauge 18" cable for severe duty applications

- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application



DC4360 BAYONET CABLE

- Corrosion resistant plated body with clear anodized internal spool • Two-hole body mount

- Specially engineered O-rings designed to function in extreme cold temperatures to -40C

- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM

- Designed specifically for heavy duty transportation industry

- **Dimensions: Height 2.25" - Width 1.25" - Length 6.07"** • **Approximate Weight: 1.125 lbs.**

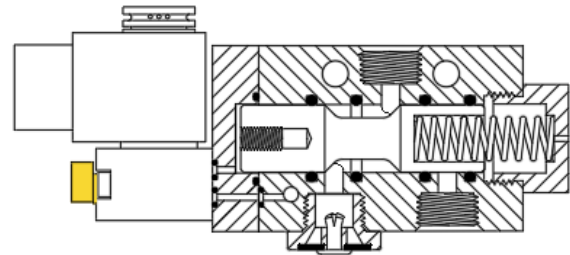
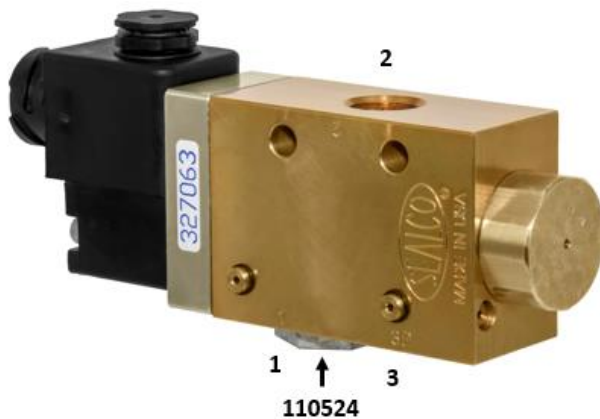
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable

- **Competitive Part Interchange**

PART NUMBER	ALL PORT SIZES (NPT)
327061	3/8"



Directional Control Valve – 3 Port / 2 Position Solenoid (Normally Closed)



- Commonly used to operate, gates, cylinders, locking actuators & other air operated devices

- Solenoid operated with override switch, connected with heavy duty bayonet connector with two conductor 14 gauge 18" cable for severe duty applications

- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application



- Corrosion resistant plated body with clear anodized internal spool • Two-hole body mount

- Specially engineered O-rings designed to function in extreme cold temperatures to -40C

- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM

- Designed specifically for heavy duty transportation industry

- **Dimensions: Height 2.25" - Width 1.25" - Length 6.07"** • **Approximate Weight: 1.13 lbs.**

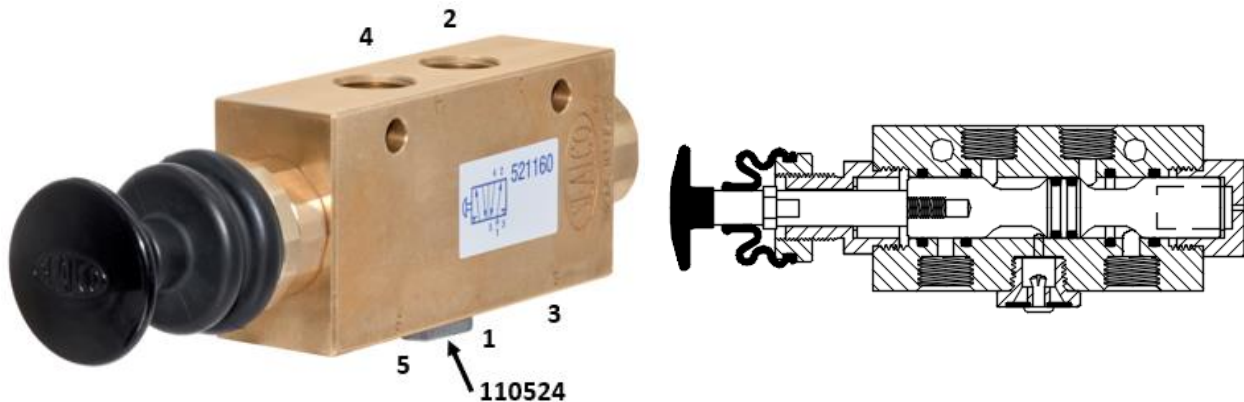
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable

- **Competitive Part Interchange**

PART NUMBER	ALL PORT SIZES (NPT)
327063	3/8"



Directional Control Valves – 5 Port / 2 Position Manual



- Commonly used to operate lift axles, gates, cylinders, locking actuators & other air operated devices
- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application
- Corrosion resistant plated body with clear anodized internal spool
- Specially engineered O-rings designed to function in extreme cold temperatures to -40C
- Single hole mount in panels up to 3/8" or two hole body mount
- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM
- Designed specifically for heavy duty transportation industry
- Dimensions: Height 2.25" - Width 1.25" - Length 6.94" • Approximate Weight: 1.06 lbs. (See [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

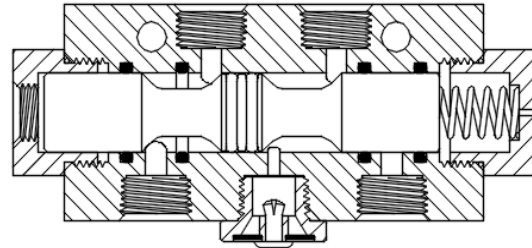
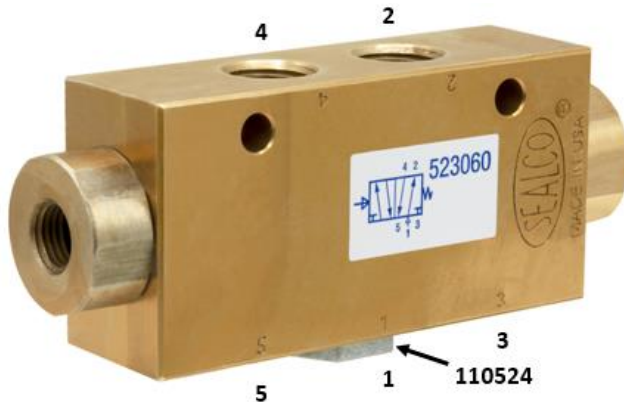


13-42 (BLACK PLASTIC)

PART NUMBER	ALL PORT SIZES (NPT)	KNOB	COMMENTS
521060	3/8"	13-42	Without Boot
521160	3/8"	13-42	With Boot



Directional Control Valve – 5 Port / 2 Position Air Pilot

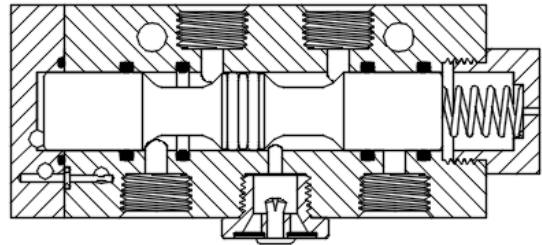


- Commonly used to operate lift axles, gates, cylinders, locking actuators & other air operated devices
- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application
- Corrosion resistant plated body with clear anodized internal spool
- Specially engineered O-rings designed to function in extreme cold temperatures to -40C
- Two hole body mount
- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM
- Designed specifically for heavy duty transportation industry
- Dimensions: Height 2.25" - Width 1.25" - Length 4.98" • Approximate Weight: .92 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

PART NUMBER	ALL PORT SIZES (NPT)
523060	3/8"



Directional Control Valve – 5 Port / 2 Position Valve Solenoid

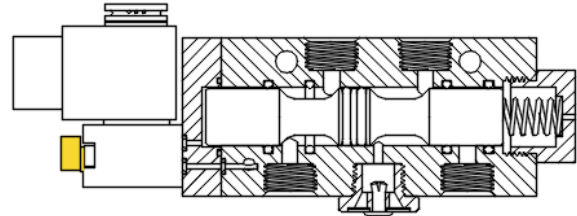
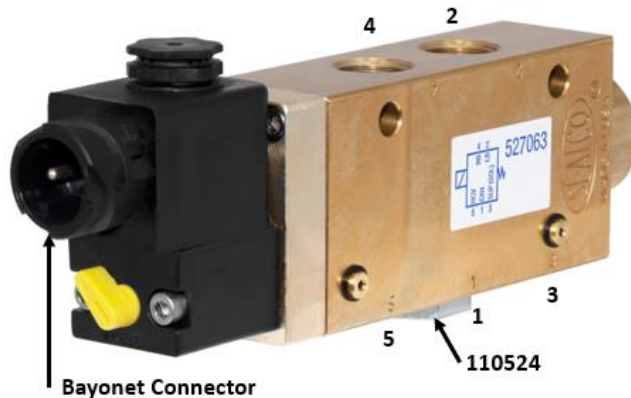


- Commonly used to operate lift axles, gates, cylinders, locking actuators & other air operated devices
- Solenoid operated with override switch, two 19" 20 gauge primary wires for connection
- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application
- Corrosion resistant plated body with clear anodized internal spool • Two hole body mount
- Specially engineered O-rings designed to function in extreme cold temperatures to -40C
- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM
- Designed specifically for heavy duty transportation industry
- Dimensions: Height 2.25" - Width 2.30" - Length 4.98" • Approximate Weight: 1.32 lbs.
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Competitive Part Interchange**

PART NUMBER	ALL PORT SIZES (NPT)
525063	3/8"



Directional Control Valve – 5 Port / 2 Position Solenoid



- Commonly used to operate lift axles, gates, cylinders, locking actuators & other air operated devices

- Solenoid operated with override switch, connected with heavy duty bayonet connector with two conductor 14 gauge 18" cable for severe duty applications

- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application



- Corrosion resistant plated body with clear anodized internal spool • Two hole body mount

- Specially engineered O-rings designed to function in extreme cold temperatures to -40C

- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM

- Designed specifically for heavy duty transportation industry

- Dimensions: Height 2.25" - Width 1.25" - Length 7.20" • Approximate Weight: 1.35 lbs.

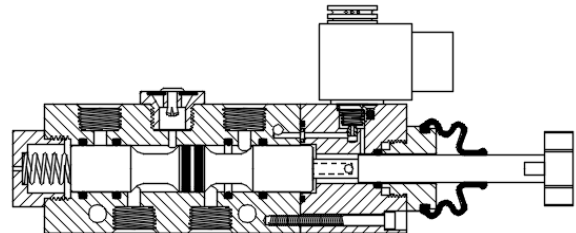
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable

- **Competitive Part Interchange**

PART NUMBER	ALL PORT SIZES (NPT)
527063	3/8"



Directional Control Valve – 5 Port/2 Position Valve Solenoid / Manual



- Commonly used to operate lift axles, gates, cylinders, locking actuators & other air operated devices
- Solenoid or manually operated with knob, connected with heavy duty bayonet connector with two conductor 14 gauge 18" cable for severe duty applications
- Includes exhaust cap in Port 1 (110524) to prevent contamination which may be moved to other ports depending upon application
- Corrosion resistant plated body with clear anodized internal spool • Two hole body mount
- Specially engineered O-rings designed to function in extreme cold temperatures to -40C
- Fast flow rate valve with enlarged oval shaped internal openings for air flow exceeding 89 SCFM
- Designed specifically for heavy duty transportation industry
- Dimensions: Height 3.52" - Width 1.35" - Length 8.11" • Approximate Weight: 1.97 lbs.
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Competitive Part Interchange**



DC4360 BAYONET CABLE

PART NUMBER	ALL PORT SIZES (NPT)
529163	3/8"

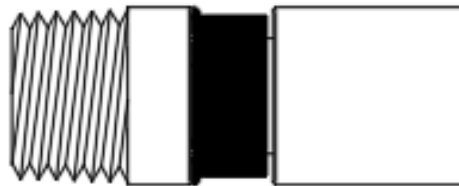


One-Way Check Valve – Internal

INLET



INSTALL
DRIVE

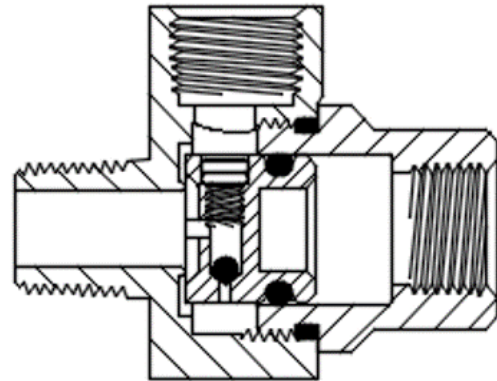
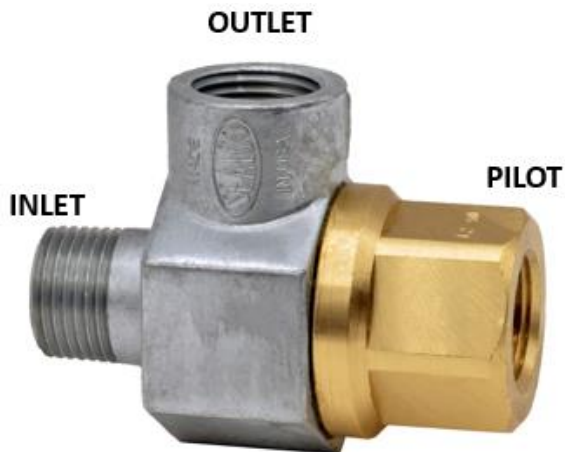


- Commonly used in baffled air reservoirs to allow air to flow from one side to the other but block air in the other direction
- Air flows out of rubber band check valve in center of valve
- One end of the valve has a threaded port while the other end has a square 1/4" opening to allow the valve to be installed inside the air reservoir
- Dimensions: Height 1.43" – Diameter .55" • Approximate Weight: .06 lbs. (See [Weight Chart](#))

PART NUMBER	PORT SIZE (NPT)	INSTALL DRIVE
720452	1/4"	1/4" Square



Air Pilot Valve – Normally Open

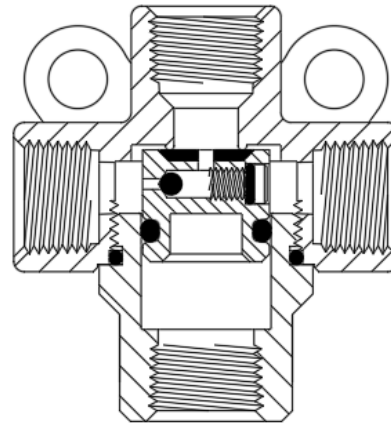


- Commonly used to disable the air brake operation on lift axles in the raised position, also known as Freewheeling Valve
- Valves are designed to stop the flow of air when the Pilot Port is pressurized
- Designed to be installed in the Delivery Port of ABS / Relay Valve
- Dimensions: Height 2.43" – Width 1.31" – Length 1.93" • Approximate Weight: .47 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

PART NUMBER	PORT SIZES (NPT)		
	INLET	OUTLET	PILOT
780115	3/8"	3/8"	3/8"



Air Pilot Valve – Normally Open



- Commonly used to disable the air brake operation on lift axles in the raised position, also know as Freewheeling Vavle
- Valves are designed to stop the flow of air when the Pilot Port is pressurized
- Frame mounted
- Dimensions: Height 2.50" – Width 2.25" – Length 2.00" • Approximate Weight: .59 lbs.
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

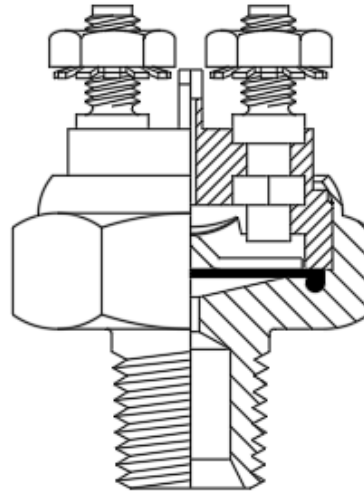
PART NUMBER	PORT SIZES (NPT)		
	INLET	OUTLET (2)	PILOT
780215	3/8"	3/8"	3/8"



Indicator Light Switch



INLET

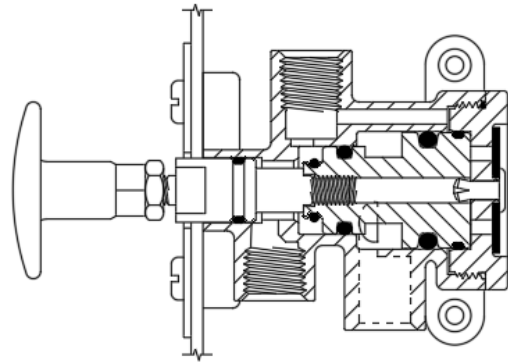


- This pneumatic switch joins the contacts when inlet air pressure is above 3 psi
- Electrical connections are non-polar with two #10 studs with nuts & lock washers
- Dimensions: Height 1.81" - Width 1.12" - Depth 1.12" • Approximate Weight: .33 lbs.

PART NUMBER	PORT SIZE NPT	COMMENTS
810002	1/4"	Nipple Mounted



Air Bag Control Valves

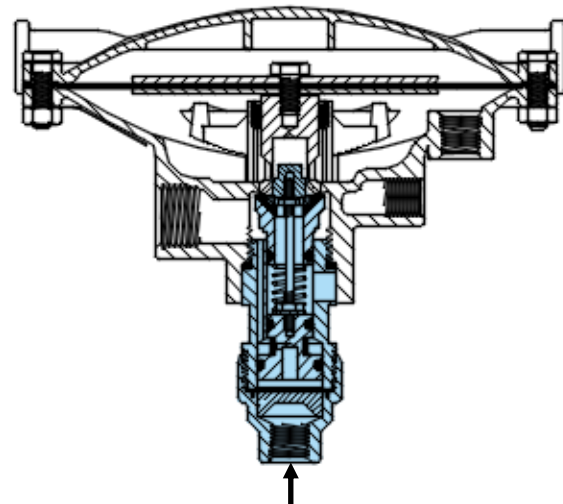
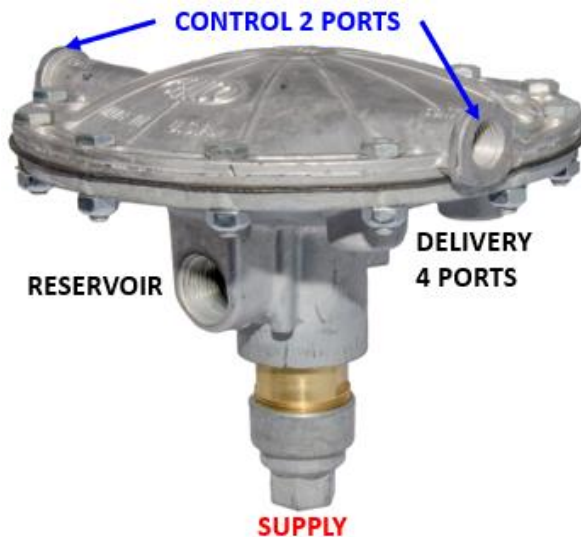


- Commonly used to control the inflation & deflation of air suspension bags
- Manual mode allow for movement of the trailer without re-inflating the air bags by inserting the 0361 Breather Plug into the Pilot Port (do not use sealant on the Breather Plug – Pilot Port must never be plugged)
- Auto Reset mode resets valve to fill air bags when trailer parking brakes are released by not using the Breather Plug & connecting the supply line to the Pilot Port
- Dimensions: Height 4.25" - Width 2.62" - Depth 1.62" • Approximate Weight: 1.05 lbs. (See [Weight Chart](#))
- [Air Piping Diagrams](#) – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- [Competitive Part Interchange](#)

PART NUMBER	PORT SIZES (NPT)			KNOB	NAME PLATE	COMMENT
	INLET	OUTLET	PILOT			
996555	1/4"	1/4"	1/4"	0190	8179	Without Boot
996550	1/4"	1/4"	1/4"	0190	8179	With Boot

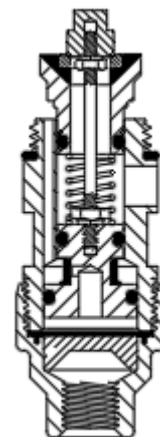


Relay Emergency Valves – Pre FMVSS 121



1000-5A Cartridge

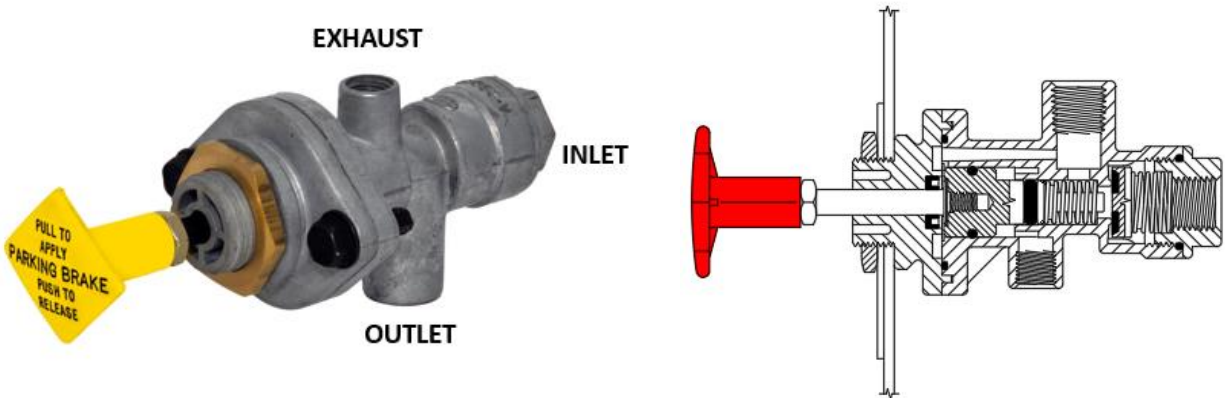
- Used in air brake systems prior to the implementation of the FMVSS 121 rule & the mandate for mechanically held brakes resulting in spring brake chambers
- Designed to be used with service brake chambers only
- See Sealco Charging Relay Emergency valves for versions of this valve used since 1975
- Dimensions: Height 5.31" - Width 7.19" - Depth 7.000"
Approximate Weight: 5.60 lbs.
- **Mounting Hardware** – See Air Valves & Related Products / Mounting Hardware
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Cartridge 1000-5A**
- **Repair Kit 10-5**
- **Competitive Part Interchange Guide**



PART NUMBER	PORT SIZES (NPT)				NOMINAL CRACK PRESSURE
	SUPPLY	CONTROL (2)	RESERVOIR	DELIVERY (4)	
A1000S	1/4"	1/4"	1/2"	1/4"	1.5 PSI



Push/Pull Valves – Automatic Shut Off (Single Hole Mounting)



- Commonly used as dash valve inside tractor or truck
- Automatic shut-off when inlet pressure drops to 30 ± 5 psi
- Single hole mounting



KNOB 13Y (YELLOW)



KNOB 13R (RED)

- Dimensions: Height 5.20" - Width 2.45" - Length 2.18" • Approximate Weight: .83 lbs. (See [Weight Chart](#))
- **REPAIR KIT A256-5**
- **Air Piping Diagrams** – See Technical / Air Piping Diagrams, multiple diagrams are applicable
- **Competitive Part Interchange**

PART NUMBER	KNOB	PORT SIZES (NPT)			SHUT-OFF psi
		INLET	OUTLET	EXHAUST	
A25600	13R	1/4"	1/4"	1/8"	30 $\pm$ 5
A25600Y	13Y	1/4"	1/4"	1/8"	30 $\pm$ 5
A25600-2	-	1/4"	1/4"	1/8"	30 $\pm$ 5