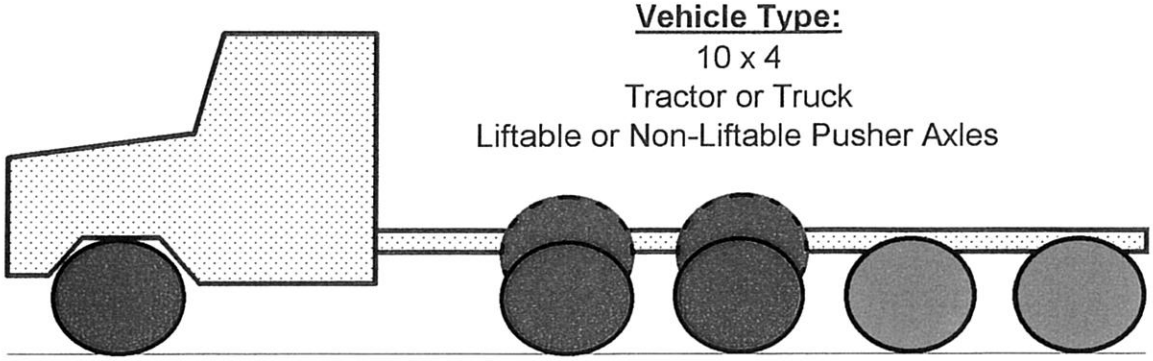
Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Pusher Axles



	Steering Axle		Pusher Axles		Drive Axles	
Std. Valve	Quick Release		Relay		Relay	
Hold-Off	6 psi sustained	**Configuration**	5.5 psi		5.5 psi	
Circuit	Secondary	**#1**	Secondary		Primary	
ABS Sensor	Sensed		No	No	No	Sensed
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #1	

Std. Valve	Quick Release		Relay		Relay	
Hold-Off	6 psi sustained	**Configuration**	5.5 psi		5.5 psi	
Circuit	Secondary	**#2**	Secondary		Primary	
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #2	

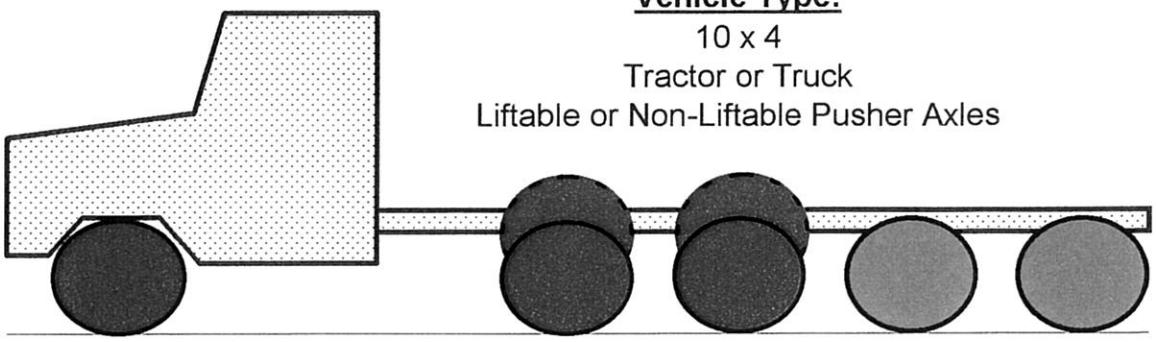
Std. Valve	Quick Release		Relay		Relay	
Hold-Off	2-4.5 psi sustained	**Configuration**	4.0 psi		5.5 psi	
Circuit	Secondary	**#3**	Secondary		Primary	
ABS Sensor	Sensed		No	No	No	Sensed
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #1	

Std. Valve	Quick Release		Relay		Relay	
Hold-Off	2-4.5 psi sustained	**Configuration**	4.0 psi		5.5 psi	
Circuit	Secondary	**#4**	Secondary		Primary	
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #2	

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Pusher Axles

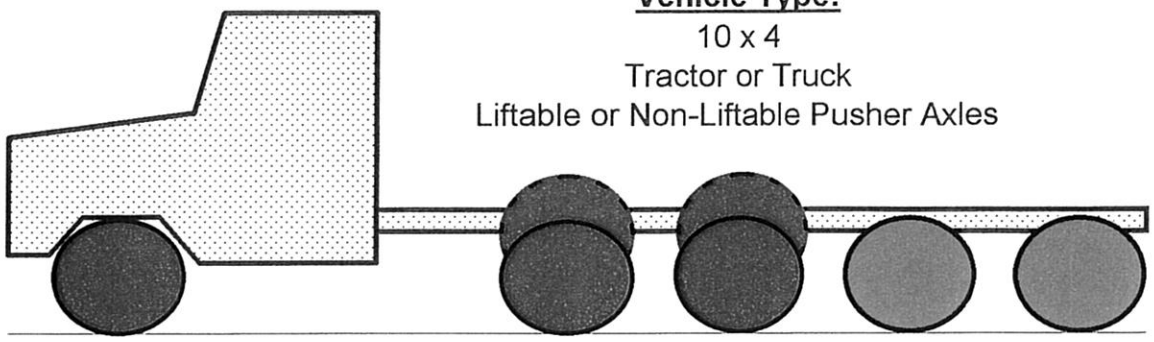


	Steering Axle		Pusher Axles		Drive Axles	
Opt. Valve	Quick Release		Relay		Relay	
Hold-Off	2-4.5 psi sustained	**Configuration**	4.0 psi		4.0 psi	
Circuit	Secondary	**#5**	Secondary		Primary	
ABS Sensor	Sensed		No	No	No	Sensed
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #1	
Opt. Valve	Quick Release		Relay		Relay	
Hold-Off	2-4.5 psi sustained	**Configuration**	4.0 psi		4.0 psi	
Circuit	Secondary	**#6**	Secondary		Primary	
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #2	
Opt. Valve	Quick Release		Relay		Relay	
Hold-Off	0-1 psi	**Configuration**	4 psi		4 psi	
Circuit	Secondary	**#7**	Secondary		Primary	
ABS Sensor	Sensed		No	No	No	Sensed
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #1	
Opt. Valve	Quick Release		Relay		Relay	
Hold-Off	0-1 psi	**Configuration**	4 psi		4 psi	
Circuit	Secondary	**#8**	Secondary		Primary	
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #2	

Suspension Group **#1**: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group **#2**: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Pusher Axles



	Steering Axle		Pusher Axles		Drive Axles	
Opt. Valve	Relay		Relay		Relay	
Hold-Off	5.5 psi	**Configuration**	5.5 psi		5.5 psi	
Circuit	Secondary	**#9**	Secondary		Primary	
ABS Sensor	Sensed		No	No	No	Sensed
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #1	

Opt. Valve	Relay		Relay		Relay	
Hold-Off	5.5 psi	**Configuration**	5.5 psi		5.5 psi	
Circuit	Secondary	**#10**	Secondary		Primary	
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #2	

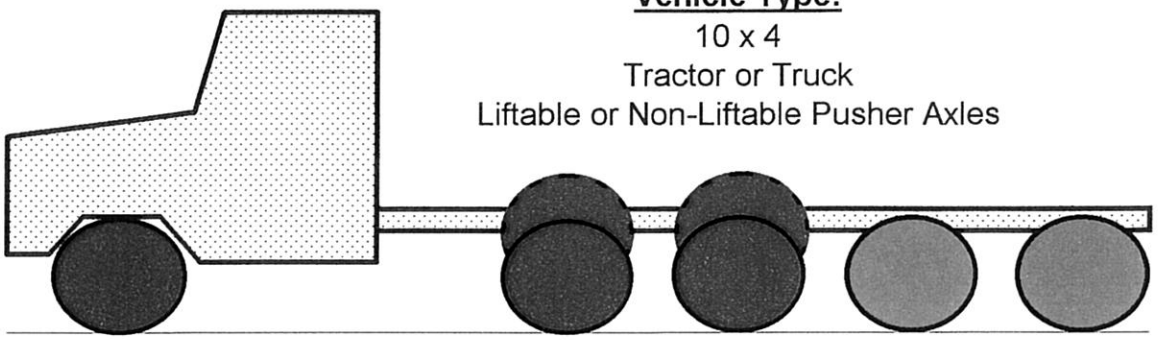
Opt. Valve	Relay		Relay		Relay	
Hold-Off	4.0 psi	**Configuration**	4.0 psi		4.0 psi	
Circuit	Secondary	**#11**	Secondary		Primary	
ABS Sensor	Sensed		No	No	No	Sensed
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #1	

Opt. Valve	Relay		Relay		Relay	
Hold-Off	4.0 psi	**Configuration**	4.0 psi		4.0 psi	
Circuit	Secondary	**#12**	Secondary		Primary	
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #2	

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Pusher Axles



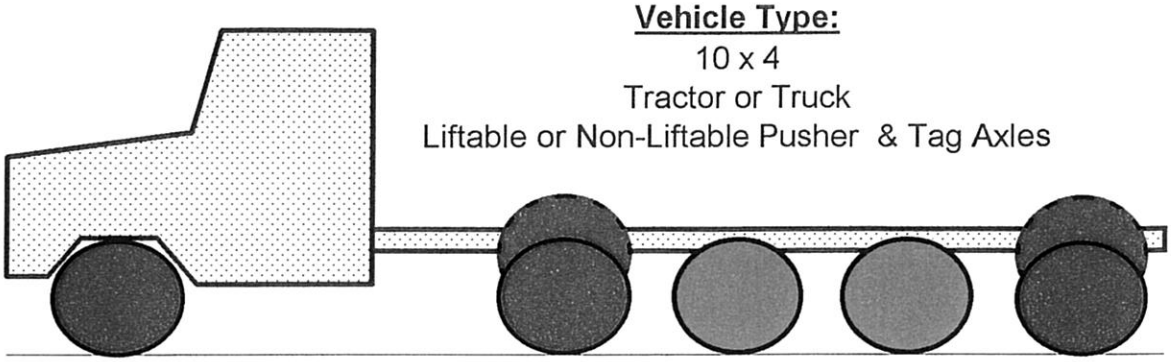
	Steering Axle		Pusher Axles		Drive Axles	
Opt. Valve Hold-Off Circuit	Relay 4.0 psi Secondary	**Configuration #13**	Relay 4.0 psi Secondary		Relay 5.5 psi Primary	
ABS Sensor	Sensed		No	No	No	Sensed
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #1	

Opt. Valve Hold-Off Circuit	Relay 4.0 psi Secondary	**Configuration #14**	Relay 4.0 psi Secondary		Relay 5.5 psi Primary	
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	Any	For Suspension Group #2	

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Pusher & Tag Axles



	Steering Axle		Pusher	Drive Axles		Tag Axle
Std. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	6 psi sustained	**Configuration**	5.5 psi	5.5 psi		5.5 psi
Circuit	Secondary	**#1**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" 4 "		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1		Any

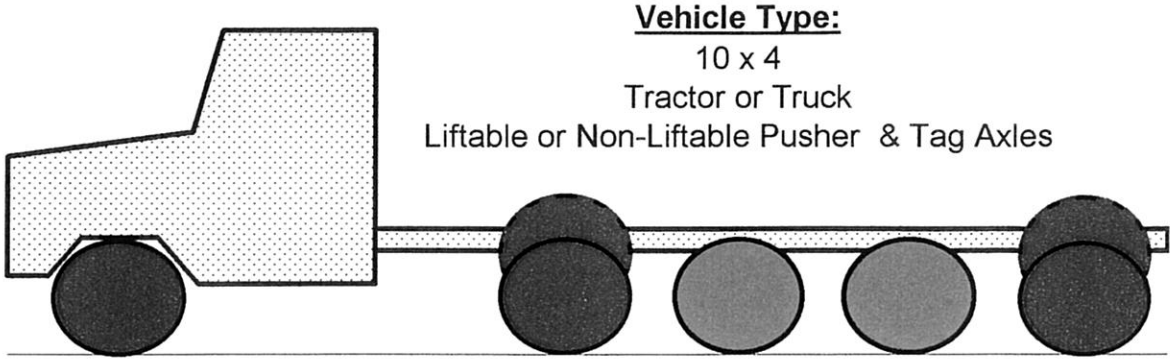
Std. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	6 psi sustained	**Configuration**	5.5 psi	5.5 psi		5.5 psi
Circuit	Secondary	**#2**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" 4 "		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2		Any

Std. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	2-4.5 psi sustained	**Configuration**	4.0 psi	5.5 psi		4.0 psi
Circuit	Secondary	**#3**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1		Any

Std. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	2-4.5 psi sustained	**Configuration**	4.0 psi	5.5 psi		4.0 psi
Circuit	Secondary	**#4**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2		Any

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS



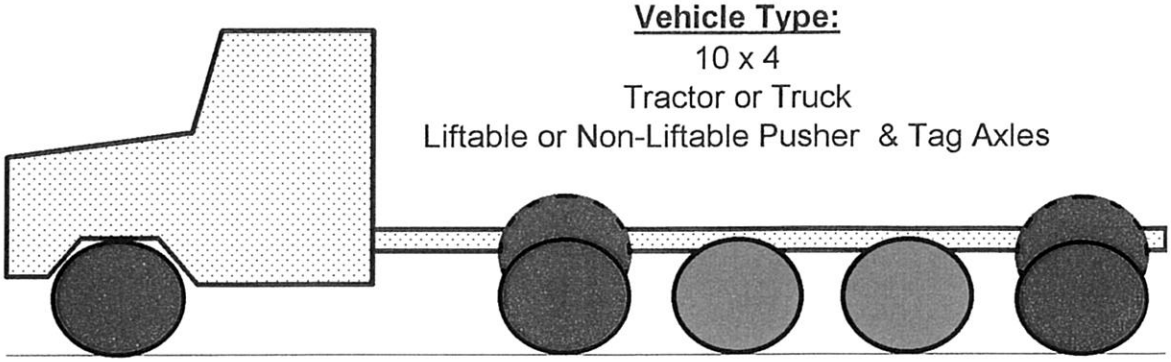
Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Pusher & Tag Axles

	Steering Axle		Pusher	Drive Axles		Tag Axle
Opt. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	2-4.5 psi sustained	**Configuration**	4.0 psi	4.0 psi		4.0 psi
Circuit	Secondary	**#5**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1		Any
Opt. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	2-4.5 psi sustained	**Configuration**	4.0 psi	4.0 psi		4.0 psi
Circuit	Secondary	**#6**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2		Any
Opt. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	0-1 psi	**Configuration**	4 psi	4 psi		4 psi
Circuit	Secondary	**#7**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1		Any
Opt. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	0-1 psi	**Configuration**	4 psi	4 psi		4 psi
Circuit	Secondary	**#8**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2		Any

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Pusher & Tag Axles



	Steering Axle		Pusher	Drive Axles		Tag Axle
Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	5.5 psi	**Configuration**	5.5 psi	5.5 psi		5.5 psi
Circuit	Secondary	**#9**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	25" or More		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1		Any

Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	5.5 psi	**Configuration**	5.5 psi	5.5 psi		5.5 psi
Circuit	Secondary	**#10**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	25" or More		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2		Any

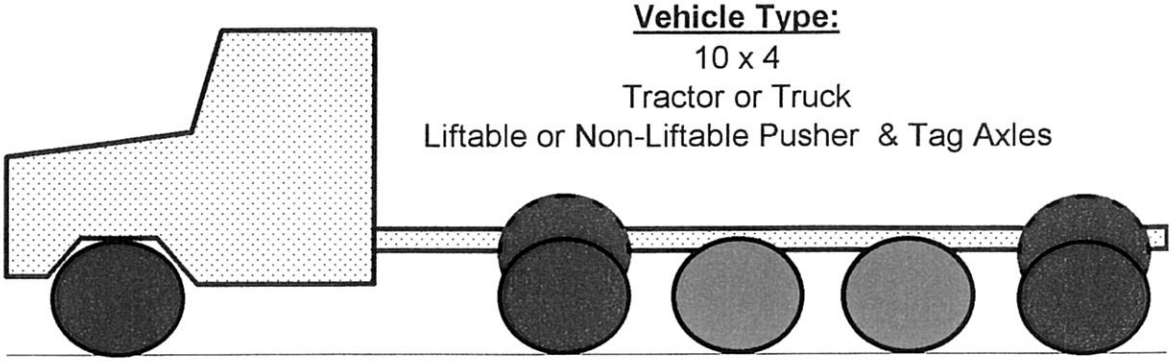
Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	4.0 psi	**Configuration**	4.0 psi	4.0 psi		4.0 psi
Circuit	Secondary	**#11**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	25" or More		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1		Any

Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	4.0 psi	**Configuration**	4.0 psi	4.0 psi		4.0 psi
Circuit	Secondary	**#12**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	25" or More		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2		Any

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Pusher & Tag Axles

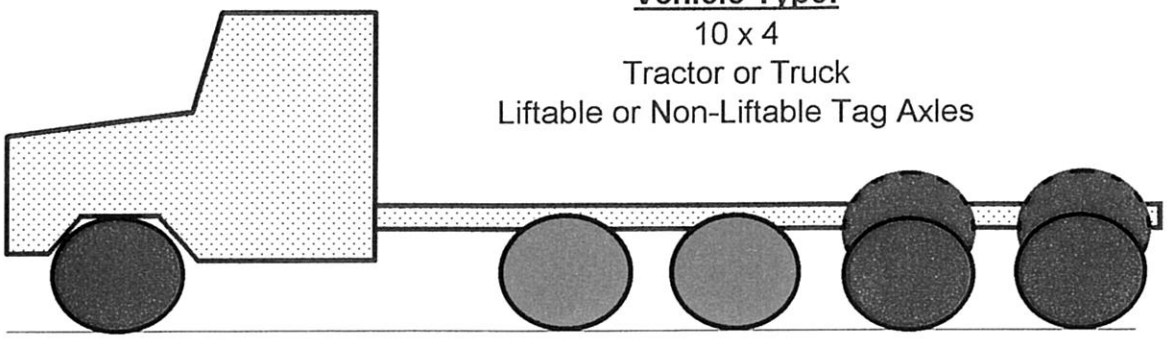


	Steering Axle		Pusher	Drive Axles		Tag Axle
Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	4.0 psi	**Configuration**	4.0 psi	5.5 psi		4.0 psi
Circuit	Secondary	**#13**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	No	Sensed	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	25" or More		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1		Any
Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	4.0 psi	**Configuration**	4.0 psi	5.5 psi		4.0 psi
Circuit	Secondary	**#14**	Secondary	Primary		Secondary
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	25" or More		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2		Any

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Tag Axles



	Steering Axle		Drive Axles		Tag Axles	
Std. Valve	Quick Release		Relay		Relay	
Hold-Off	6 psi sustained	**Configuration**	5.5 psi		5.5 psi	
Circuit	Secondary	**#1**	Primary		Secondary	
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		Modulated	Modulated	No	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		For Suspension Group #1		Any	Any

Std. Valve	Quick Release		Relay		Relay	
Hold-Off	6 psi sustained	**Configuration**	5.5 psi		5.5 psi	
Circuit	Secondary	**#2**	Primary		Secondary	
ABS Sensor	Sensed		Sensed	No	No	No
Modulator	Modulated		Modulated	Modulated	No	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		For Suspension Group #2		Any	Any

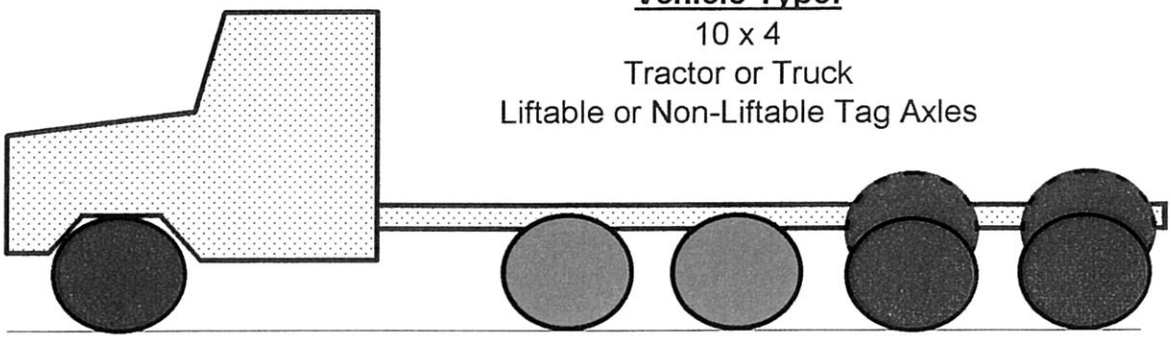
Std. Valve	Quick Release		Relay		Relay	
Hold-Off	2-4.5 psi sustained	**Configuration**	5.5 psi		4.0 psi	
Circuit	Secondary	**#3**	Primary		Secondary	
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		Modulated	Modulated	No	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		For Suspension Group #1		Any	Any

Std. Valve	Quick Release		Relay		Relay	
Hold-Off	2-4.5 psi sustained	**Configuration**	5.5 psi		4.0 psi	
Circuit	Secondary	**#4**	Primary		Secondary	
ABS Sensor	Sensed		Sensed	No	No	No
Modulator	Modulated		Modulated	Modulated	No	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		For Suspension Group #2		Any	Any

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Tag Axles

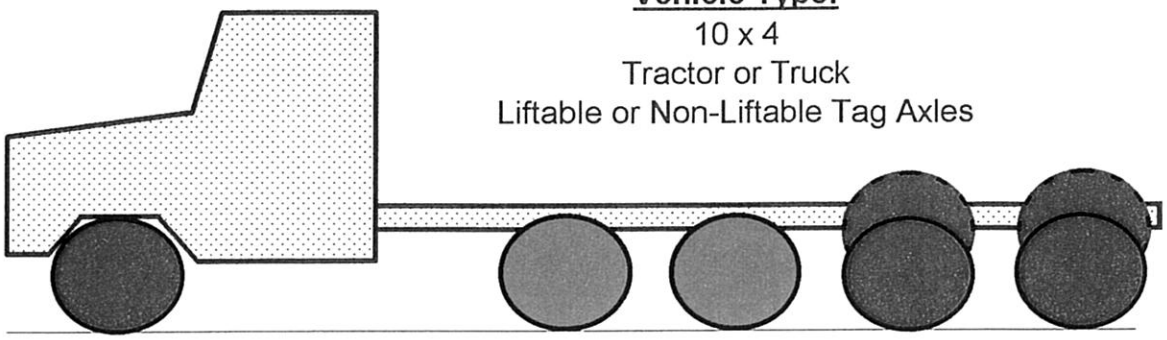


	Steering Axle		Drive Axles		Tag Axles	
Opt. Valve Hold-Off Circuit	Quick Release 2-4.5 psi sustained Secondary	**Configuration #5**	Relay 4.0 psi Primary		Relay 4.0 psi Secondary	
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		Modulated	Modulated	No	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		For Suspension Group #1		Any	Any
Opt. Valve Hold-Off Circuit	Quick Release 2-4.5 psi sustained Secondary	**Configuration #6**	Relay 4.0 psi Primary		Relay 4.0 psi Secondary	
ABS Sensor	Sensed		Sensed	No	No	No
Modulator	Modulated		Modulated	Modulated	No	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any	Any
Suspension	Any		For Suspension Group #2		Any	Any
Opt. Valve Hold-Off Circuit	Quick Release 0-1 psi Secondary	**Configuration #7**	Relay 4 psi Primary		Relay 4 psi Secondary	
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		Modulated	Modulated	No	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		For Suspension Group #1		Any	Any
Opt. Valve Hold-Off Circuit	Quick Release 0-1 psi Secondary	**Configuration #8**	Relay 4 psi Primary		Relay 4 psi Secondary	
ABS Sensor	Sensed		Sensed	No	No	No
Modulator	Modulated		Modulated	Modulated	No	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		For Suspension Group #2		Any	Any

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Tag Axles

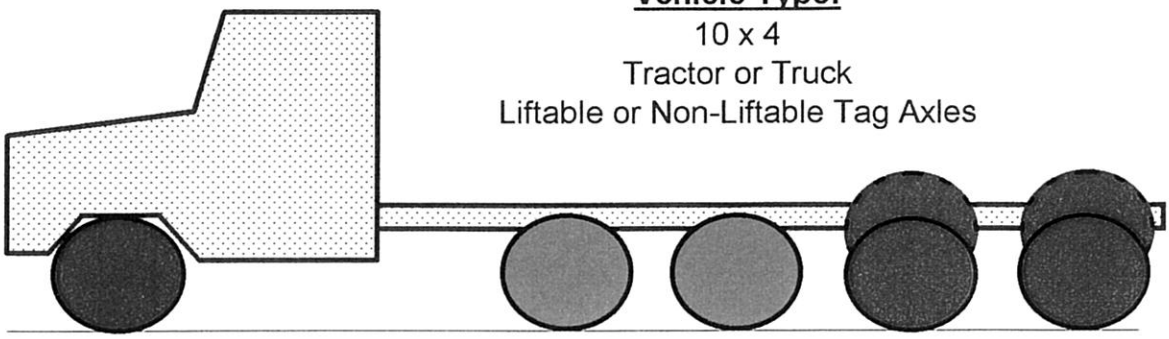


	Steering Axle		Drive Axles		Tag Axles	
Opt. Valve Hold-Off Circuit	Relay 5.5 psi Secondary	**Configuration #9**	Relay 5.5 psi Primary		Relay 5.5 psi Secondary	
ABS Sensor Modulator	Sensed Modulated		No Modulated	Sensed Modulated	No No	No No
Chamber Brake Suspension	25" or More 15" x 4" Any		Any Any For Suspension Group #1	Any Any	Any Any Any	Any Any Any
Opt. Valve Hold-Off Circuit	Relay 5.5 psi Secondary	**Configuration #10**	Relay 5.5 psi Primary		Relay 5.5 psi Secondary	
ABS Sensor Modulator	Sensed Modulated		Sensed Modulated	No Modulated	No No	No No
Chamber Brake Suspension	25" or More 15" x 4" Any		Any Any For Suspension Group #2	Any Any	Any Any Any	Any Any Any
Opt. Valve Hold-Off Circuit	Relay 4.0 psi Secondary	**Configuration #11**	Relay 4.0 psi Primary		Relay 4.0 psi Secondary	
ABS Sensor Modulator	Sensed Modulated		No Modulated	Sensed Modulated	No No	No No
Chamber Brake Suspension	25" or More 15" x 4" Any		Any Any For Suspension Group #1	Any Any	Any Any Any	Any Any Any
Opt. Valve Hold-Off Circuit	Relay 4.0 psi Secondary	**Configuration #12**	Relay 4.0 psi Primary		Relay 4.0 psi Secondary	
ABS Sensor Modulator	Sensed Modulated		Sensed Modulated	No Modulated	No No	No No
Chamber Brake Suspension	25" or More 15" x 4" Any		Any Any For Suspension Group #2	Any Any	Any Any Any	Any Any Any

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Tag Axles

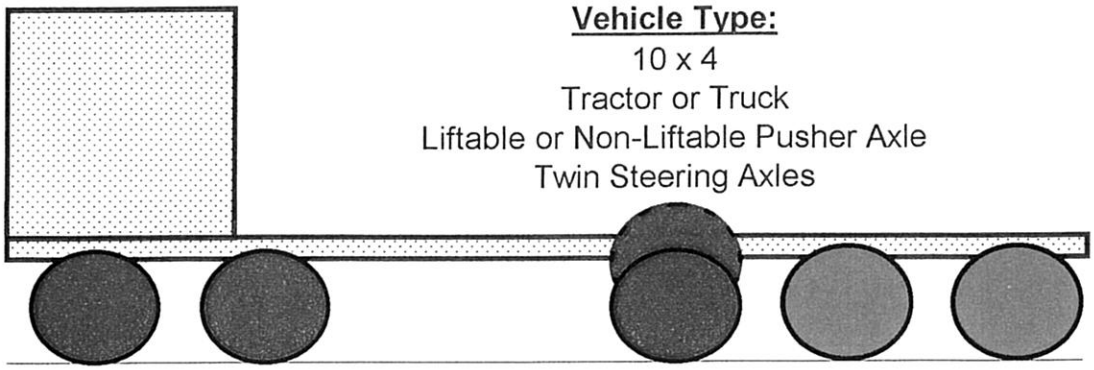


	Steering Axle		Drive Axles		Tag Axles	
Opt. Valve Hold-Off Circuit	Relay 4.0 psi Secondary	**Configuration #13**	Relay 5.5 psi Primary		Relay 4.0 psi Secondary	
ABS Sensor	Sensed		No	Sensed	No	No
Modulator	Modulated		Modulated	Modulated	No	No
Chamber	25" or More		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		For Suspension Group #1		Any	Any

Opt. Valve Hold-Off Circuit	Relay 4.0 psi Secondary	**Configuration #14**	Relay 5.5 psi Primary		Relay 4.0 psi Secondary	
ABS Sensor	Sensed		Sensed	No	No	No
Modulator	Modulated		Modulated	Modulated	No	No
Chamber	25" or More		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		For Suspension Group #2		Any	Any

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS



Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Pusher Axle
Twin Steering Axles

	Steering Axle			Pusher	Drive Axles	
Std. Valve	Relay-1			Relay-2	Relay-3	
Hold-Off	5.5 psi		**Configuration**	5.5 psi	5.5 psi	
Circuit	Secondary		**#1**	Secondary	Primary	
ABS Sensor	Sensed	No		No	No	Sensed
Modulator	Modulated	No		No	Modulated	Modulated
Chamber	Any	Any		Any	Any	Any
Brake	15" x 4"	15" x 4"		Any	Any	Any
Suspension	Any	Any		Any	For Suspension Group #1	

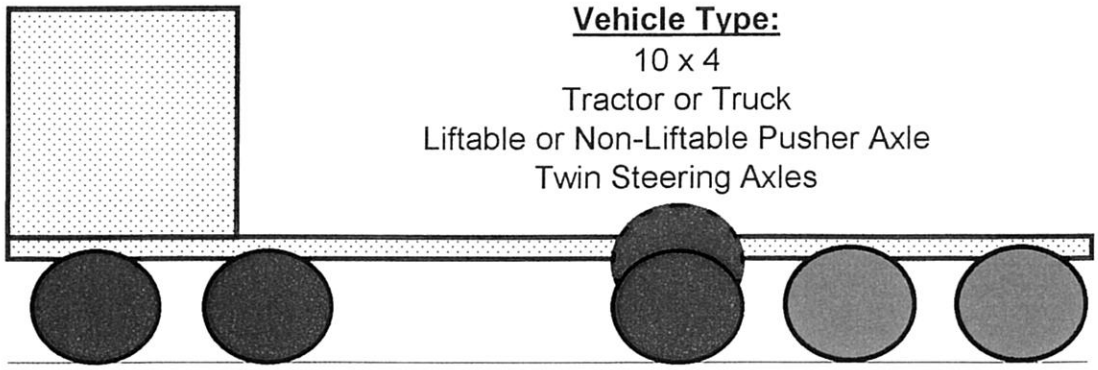
	Steering Axle			Pusher	Drive Axles	
Std. Valve	Relay-1			Relay-2	Relay-3	
Hold-Off	5.5 psi		**Configuration**	5.5 psi	5.5 psi	
Circuit	Secondary		**#2**	Secondary	Primary	
ABS Sensor	Sensed	No		No	Sensed	No
Modulator	Modulated	No		No	Modulated	Modulated
Chamber	Any	Any		Any	Any	Any
Brake	15" x 4"	15" x 4"		Any	Any	Any
Suspension	Any	Any		Any	For Suspension Group #2	

	Steering Axle			Pusher	Drive Axles	
Std. Valve	Relay-1			Relay-2	Relay-3	
Hold-Off	4.0 psi		**Configuration**	4.0 psi	5.5 psi	
Circuit	Secondary		**#3**	Secondary	Primary	
ABS Sensor	Sensed	No		No	No	Sensed
Modulator	Modulated	No		No	Modulated	Modulated
Chamber	Any	Any		Any	Any	Any
Brake	15x5 or More	15x5 or More		Any	Any	Any
Suspension	Any	Any		Any	For Suspension Group #1	

	Steering Axle			Pusher	Drive Axles	
Std. Valve	Relay-1			Relay-2	Relay-3	
Hold-Off	4.0 psi		**Configuration**	4.0 psi	5.5 psi	
Circuit	Secondary		**#4**	Secondary	Primary	
ABS Sensor	Sensed	No		No	Sensed	No
Modulator	Modulated	No		No	Modulated	Modulated
Chamber	Any	Any		Any	Any	Any
Brake	15x5 or More	15x5 or More		Any	Any	Any
Suspension	Any	Any		Any	For Suspension Group #2	

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS



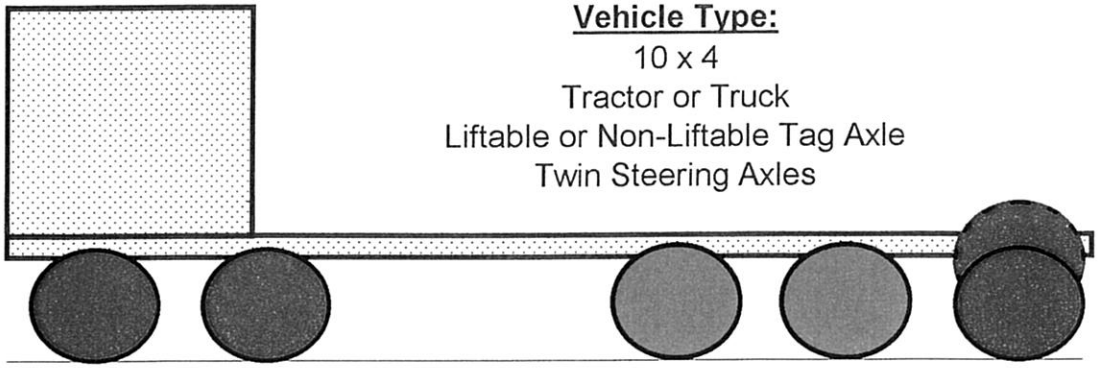
Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Pusher Axle
Twin Steering Axles

	Steering Axle			Pusher	Drive Axles	
Opt. Valve	Relay-1			Relay-2	Relay-3	
Hold-Off	4.0 psi		**Configuration**	4.0 psi	4.0 psi	
Circuit	Secondary		**#5**	Secondary	Primary	
ABS Sensor	Sensed	No		No	No	Sensed
Modulator	Modulated	No		No	Modulated	Modulated
Chamber	Any	Any		Any	Any	Any
Brake	15" x 4"	15" x 4"		Any	Any	Any
Suspension	Any	Any		Any	For Suspension Group #1	

	Steering Axle			Pusher	Drive Axles	
Opt. Valve	Relay-1			Relay-2	Relay-3	
Hold-Off	4.0 psi		**Configuration**	4.0 psi	4.0 psi	
Circuit	Secondary		**#6**	Secondary	Primary	
ABS Sensor	Sensed	No		No	Sensed	No
Modulator	Modulated	No		No	Modulated	Modulated
Chamber	Any	Any		Any	Any	Any
Brake	15" x 4"	15" x 4"		Any	Any	Any
Suspension	Any	Any		Any	For Suspension Group #2	

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS



Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Tag Axle
Twin Steering Axles

	Steering Axle			Drive Axles		Tag Axle
Std. Valve	Relay-1			Relay-2		Relay-3
Hold-Off	5.5 psi		**Configuration**	5.5 psi		5.5 psi
Circuit	Secondary		**#1**	Primary		Secondary
ABS Sensor	Sensed	No		No	Sensed	No
Modulator	Modulated	No		Modulated	Modulated	No
Chamber	Any	Any		Any	Any	Any
Brake	15" x 4"	15" x 4"		Any	Any	Any
Suspension	Any	Any		For Suspension Group #1		Any

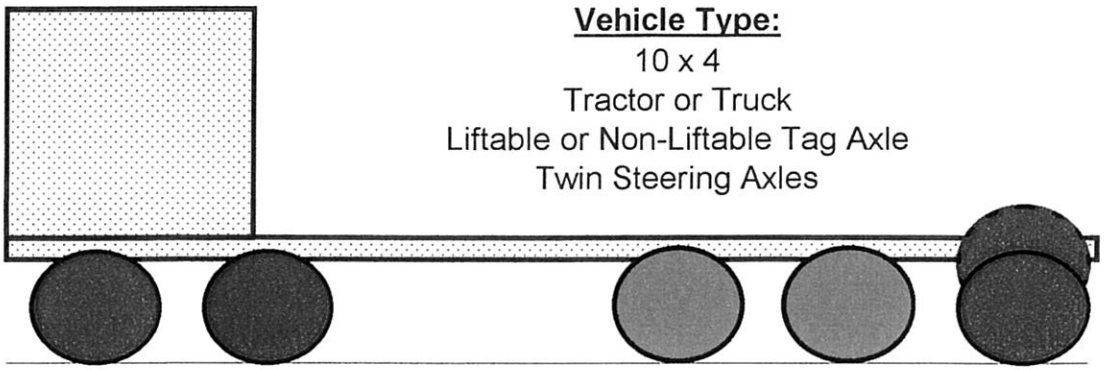
	Steering Axle			Drive Axles		Tag Axle
Std. Valve	Relay-1			Relay-2		Relay-3
Hold-Off	5.5 psi		**Configuration**	5.5 psi		5.5 psi
Circuit	Secondary		**#2**	Primary		Secondary
ABS Sensor	Sensed	No		Sensed	No	No
Modulator	Modulated	No		Modulated	Modulated	No
Chamber	Any	Any		Any	Any	Any
Brake	15" x 4"	15" x 4"		Any	Any	Any
Suspension	Any	Any		For Suspension Group #2		Any

	Steering Axle			Drive Axles		Tag Axle
Std. Valve	Relay-1			Relay-2		Relay-3
Hold-Off	4.0 psi		**Configuration**	5.5 psi		4.0 psi
Circuit	Secondary		**#3**	Primary		Secondary
ABS Sensor	Sensed	No		No	Sensed	No
Modulator	Modulated	No		Modulated	Modulated	No
Chamber	Any	Any		Any	Any	Any
Brake	15x5 or More	15x5 or More		Any	Any	Any
Suspension	Any	Any		For Suspension Group #1		Any

	Steering Axle			Drive Axles		Tag Axle
Std. Valve	Relay-1			Relay-2		Relay-3
Hold-Off	4.0 psi		**Configuration**	5.5 psi		4.0 psi
Circuit	Secondary		**#4**	Primary		Secondary
ABS Sensor	Sensed	No		Sensed	No	No
Modulator	Modulated	No		Modulated	Modulated	No
Chamber	Any	Any		Any	Any	Any
Brake	15x5 or More	15x5 or More		Any	Any	Any
Suspension	Any	Any		For Suspension Group #2		Any

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS



Vehicle Type:
10 x 4
Tractor or Truck
Liftable or Non-Liftable Tag Axle
Twin Steering Axles

	Steering Axle			Drive Axles		Tag Axle
Opt. Valve Hold-Off Circuit	Relay-1 4.0 psi Secondary		**Configuration #5**	Relay-2 4.0 psi Primary		Relay-3 4.0 psi Secondary
ABS Sensor	Sensed	No		No	Sensed	No
Modulator	Modulated	No		Modulated	Modulated	No
Chamber	Any	Any		Any	Any	Any
Brake	15" x 4"	15" x 4"		Any	Any	Any
Suspension	Any	Any		For Suspension Group #1		Any

	Steering Axle			Drive Axles		Tag Axle
Opt. Valve Hold-Off Circuit	Relay-1 4.0 psi Secondary		**Configuration #6**	Relay-2 4.0 psi Primary		Relay-3 4.0 psi Secondary
ABS Sensor	Sensed	No		Sensed	No	No
Modulator	Modulated	No		Modulated	Modulated	No
Chamber	Any	Any		Any	Any	Any
Brake	15" x 4"	15" x 4"		Any	Any	Any
Suspension	Any	Any		For Suspension Group #2		Any

Suspension Group #1: FAS-1, Airliner, Neway, Hendrickson, Chalmers
Suspension Group #2: F/L Spring, Reyco Tandem