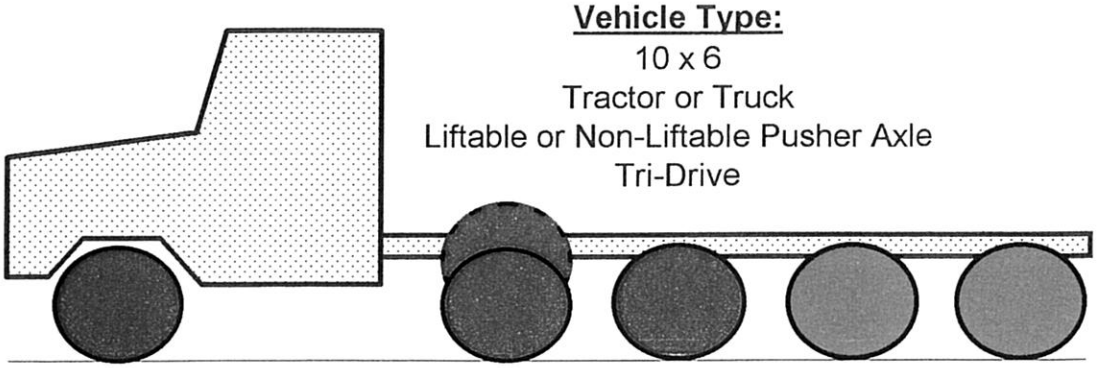
Design Rules For Valves And ABS



Vehicle Type:
10 x 6
Tractor or Truck
Liftable or Non-Liftable Pusher Axle
Tri-Drive

	Steering		Pusher	Drive Axles		
Std. Valve	Quick Release		Relay-1	Relay-1	Relay-2	
Hold-Off	6 psi sustained		5.5 psi	5.5 psi	5.5 psi	
Circuit	Secondary	**Configuration**	Secondary	Secondary	Primary	
ABS Sensor	Sensed	**#1**	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	For Suspension Group #1		

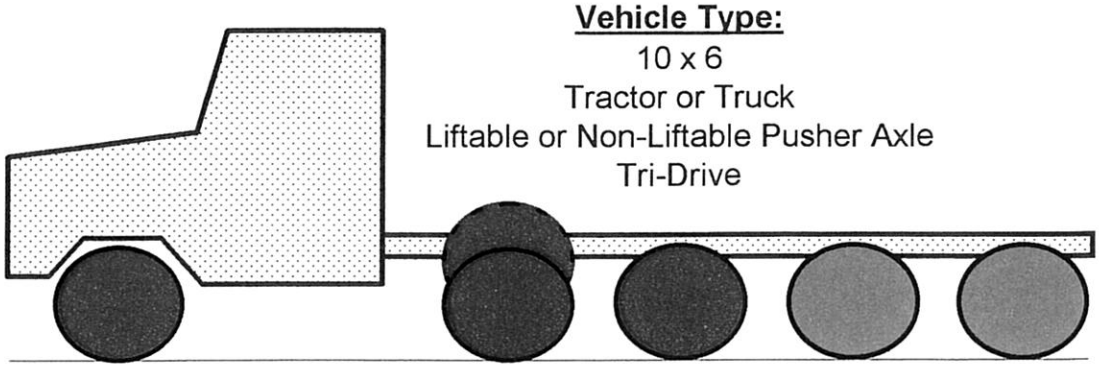
	Steering		Pusher	Drive Axles		
Std. Valve	Quick Release		Relay-1	Relay-1	Relay-2	
Hold-Off	6 psi sustained		5.5 psi	5.5 psi	5.5 psi	
Circuit	Secondary	**Configuration**	Secondary	Secondary	Primary	
ABS Sensor	Sensed	**#2**	No	No	Sensed	No
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or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

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

	Steering		Pusher	Drive Axles		
Std. Valve	Quick Release		Relay-1	Relay-1	Relay-2	
Hold-Off	2-4.5 psi sustained		4.0 psi	4.0 psi	5.5 psi	
Circuit	Secondary	**Configuration**	Secondary	Secondary	Primary	
ABS Sensor	Sensed	**#4**	No	No	Sensed	No
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any	Any
Brake	15"x5" or Larger		Any	Any	Any	Any
Suspension	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 6
Tractor or Truck
Liftable or Non-Liftable Pusher Axle
Tri-Drive

	Steering		Pusher	Drive Axles		
Opt. Valve	Quick Release		Relay-1	Relay-1	Relay-2	
Hold-Off	2-4.5 psi sustained		4.0 psi	4.0 psi	4.0 psi	
Circuit	Secondary	**Configuration**	Secondary	Secondary	Primary	
ABS Sensor	Sensed	**#5**	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	For Suspension Group #1		

Opt. Valve	Quick Release		Relay-1	Relay-1	Relay-2	
Hold-Off	2-4.5 psi sustained		4.0 psi	4.0 psi	4.0 psi	
Circuit	Secondary	**Configuration**	Secondary	Secondary	Primary	
ABS Sensor	Sensed	**#6**	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	For Suspension Group #2		

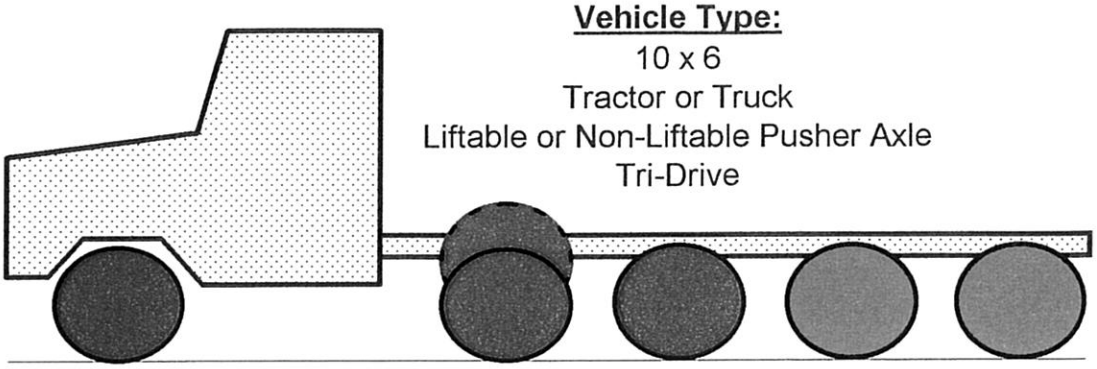
Opt. Valve	Quick Release		Relay-1	Relay-1	Relay-2	
Hold-Off	0-1 psi		4.0 psi	4.0 psi	4.0 psi	
Circuit	Secondary	**Configuration**	Secondary	4.0 psi	Primary	
ABS Sensor	Sensed	**#7**	No	No	No	Sensed
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1		

Opt. Valve	Quick Release		Relay-1	Relay-1	Relay-2	
Hold-Off	0-1 psi		4.0 psi	4.0 psi	4.0 psi	
Circuit	Secondary	**Configuration**	Secondary	4.0 psi	Primary	
ABS Sensor	Sensed	**#8**	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	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 6
Tractor or Truck
Liftable or Non-Liftable Pusher Axle
Tri-Drive



	Steering		Pusher	Drive Axles		
Opt. Valve Hold-Off Circuit	Relay-1 5.5 psi Secondary	**Configuration**	Relay-2 5.5 psi Secondary	Relay-2 5.5 psi Secondary	Relay-3 5.5 psi Primary	
ABS Sensor	Sensed	**#9**	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	For Suspension Group #1		

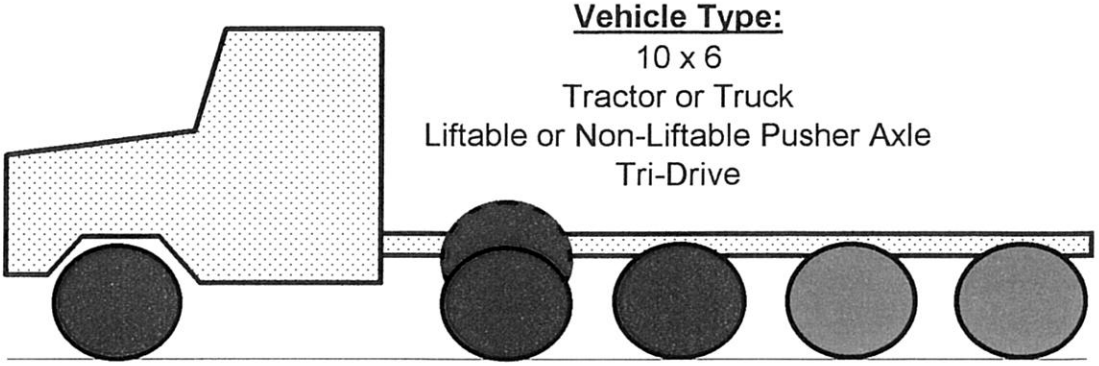
Opt. Valve Hold-Off Circuit	Relay-1 5.5 psi Secondary	**Configuration**	Relay-2 5.5 psi Secondary	Relay-2 5.5 psi Secondary	Relay-3 5.5 psi Primary	
ABS Sensor	Sensed	**#10**	No	No	Sensed	No
Modulator	Modulated		No	No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any	Any
Brake	15" x 4"		Any	Any	Any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

Opt. Valve Hold-Off Circuit	Relay 4.0 psi Secondary	**Configuration**	Relay-2 4.0 psi Secondary	Relay-2 4.0 psi Secondary	Relay-3 4.0 psi Primary	
ABS Sensor	Sensed	**#11**	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	For Suspension Group #1		

Opt. Valve Hold-Off Circuit	Relay 4.0 psi Secondary	**Configuration**	Relay-2 4.0 psi Secondary	Relay-2 4.0 psi Secondary	Relay-3 4.0 psi Primary	
ABS Sensor	Sensed	**#12**	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	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



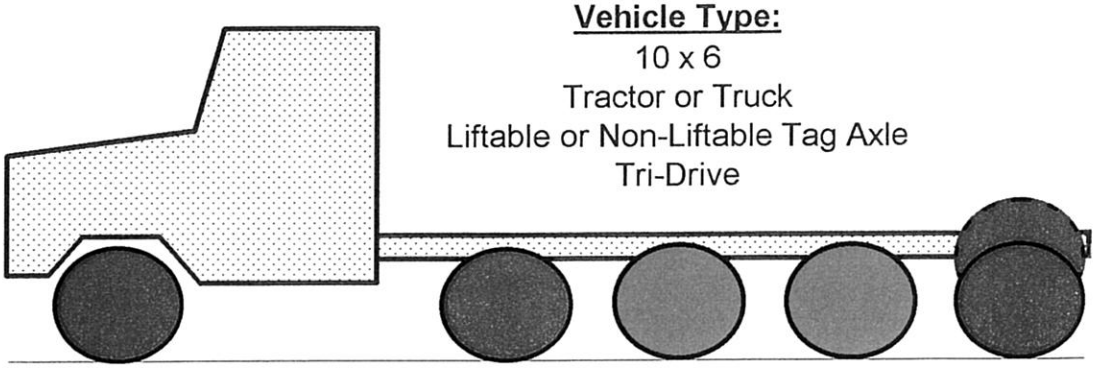
Vehicle Type:
10 x 6
Tractor or Truck
Liftable or Non-Liftable Pusher Axle
Tri-Drive

	Steering		Pusher	Drive Axles		
Opt. Valve	Relay		Relay-2	Relay-2	Relay-3	
Hold-Off	4.0 psi		4.0 psi	4.0 psi	5.5 psi	
Circuit	Secondary	**Configuration**	Secondary	Secondary	Primary	
ABS Sensor	Sensed	**#13**	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	For Suspension Group #1		

Opt. Valve	Relay		Relay-2	Relay-2	Relay-3	
Hold-Off	4.0 psi		4.0 psi	4.0 psi	5.5 psi	
Circuit	Secondary	**Configuration**	Secondary	Secondary	Primary	
ABS Sensor	Sensed	**#14**	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	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 6
Tractor or Truck
Liftable or Non-Liftable Tag Axle
Tri-Drive

	Steering		Drive Axles			Tag
Std. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	6 psi sustained		5.5 psi	5.5 psi		5.5 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#1**	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		For Suspension Group #1			Any

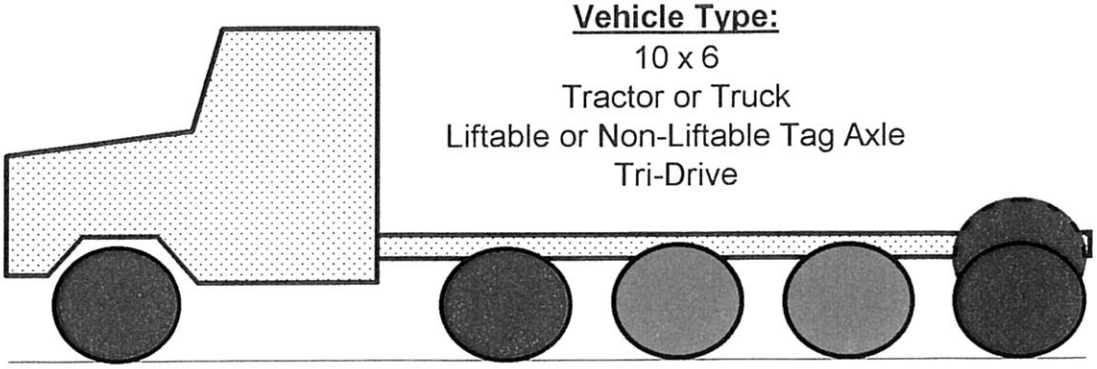
	Steering		Drive Axles			Tag
Std. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	6 psi sustained		5.5 psi	5.5 psi		5.5 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#2**	No	Sensed	No	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less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

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

	Steering		Drive Axles			Tag
Std. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	2-4.5 psi sustained		4.0 psi	5.5 psi		4.0 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#4**	No	Sensed	No	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15"x5" or Larger		Any	Any	Any	Any
Suspension	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 6
Tractor or Truck
Liftable or Non-Liftable Tag Axle
Tri-Drive

	Steering		Drive Axles			Tag
Opt. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	2-4.5 psi sustained		4.0 psi	4.0 psi		4.0 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#5**	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		For Suspension Group #1			Any

Opt. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	2-4.5 psi sustained		4.0 psi	4.0 psi		4.0 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#6**	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		For Suspension Group #2			Any

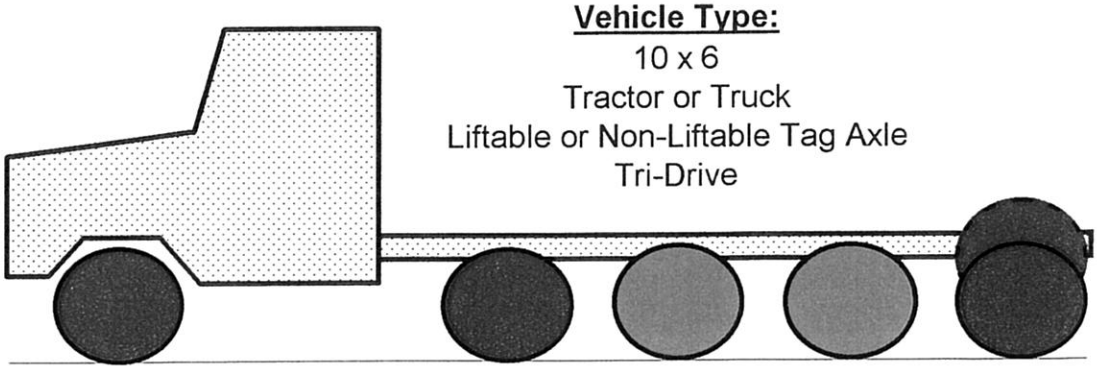
Opt. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	0-1 psi		4.0 psi	4.0 psi		4.0 psi
Circuit	Secondary	**Configuration**	4.0 psi	Primary		Secondary
ABS Sensor	Sensed	**#7**	No	No	Sensed	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	24" or Less		Any	Any	Any	Any
Brake	15x5 or Larger		Any	Any	Any	Any
Suspension	Any		For Suspension Group #1			Any

Opt. Valve	Quick Release		Relay-1	Relay-2		Relay-3
Hold-Off	0-1 psi		4.0 psi	4.0 psi		4.0 psi
Circuit	Secondary	**Configuration**	4.0 psi	Primary		Secondary
ABS Sensor	Sensed	**#8**	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		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 6
Tractor or Truck
Liftable or Non-Liftable Tag Axle
Tri-Drive



	Steering		Drive Axles			Tag
Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	5.5 psi		5.5 psi	5.5 psi		5.5 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#9**	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		For Suspension Group #1			Any

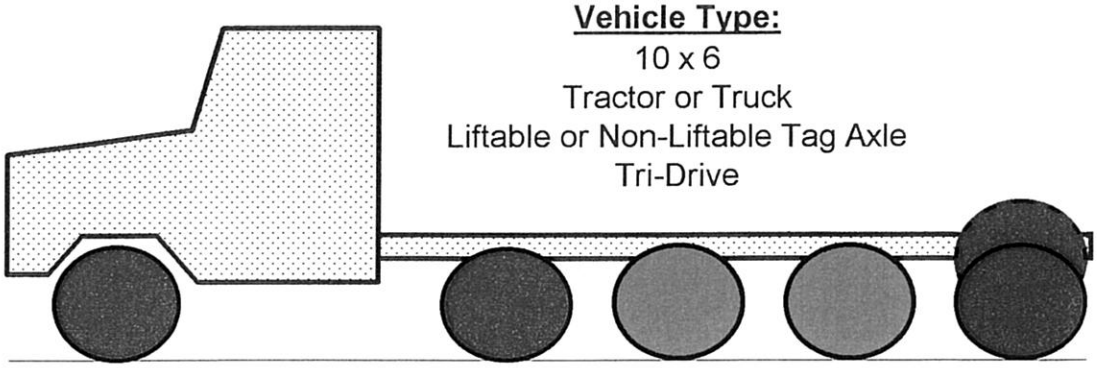
Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	5.5 psi		5.5 psi	5.5 psi		5.5 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#10**	No	Sensed	No	No
Modulator	Modulated		No	Modulated	Modulated	No
Chamber	25" or More		Any	Any	Any	Any
Brake	15" x 4"		Any	Any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

Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	4.0 psi		4.0 psi	4.0 psi		4.0 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#11**	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		For Suspension Group #1			Any

Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	4.0 psi		4.0 psi	4.0 psi		4.0 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#12**	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		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



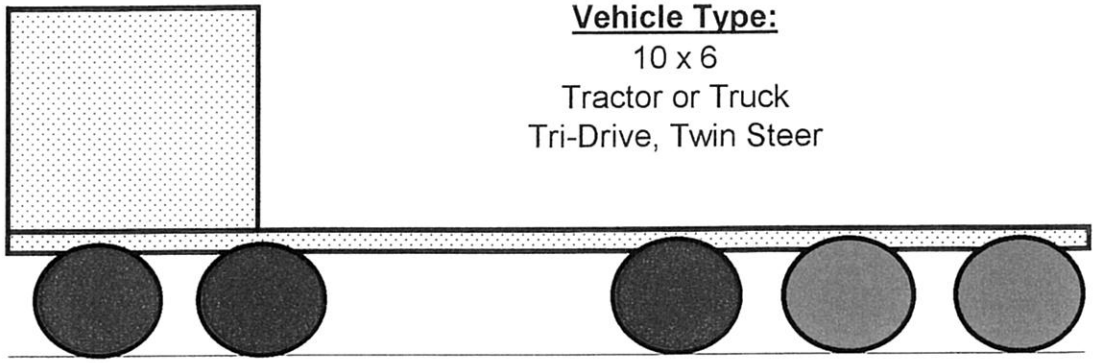
Vehicle Type:
10 x 6
Tractor or Truck
Liftable or Non-Liftable Tag Axle
Tri-Drive

	Steering		Drive Axles			Tag
Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	4.0 psi		4.0 psi	5.5 psi		4.0 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#13**	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		For Suspension Group #1			Any

Opt. Valve	Relay-1		Relay-2	Relay-3		Relay-4
Hold-Off	4.0 psi		4.0 psi	5.5 psi		4.0 psi
Circuit	Secondary	**Configuration**	Secondary	Primary		Secondary
ABS Sensor	Sensed	**#14**	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		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 6
Tractor or Truck
Tri-Drive, Twin Steer

	Steering Axle			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		For Suspension Group #1		

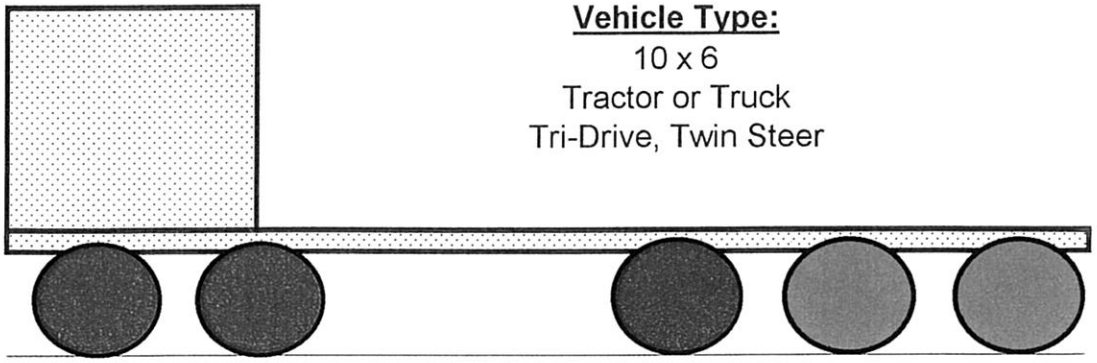
	Steering Axle			Drive Axles		
Std. Valve	Relay-1			Relay-2	Relay-3	
Hold-Off	5.5 psi		**Configuration**	5.5 psi	5.5 psi	
Circuit	Secondary		**#2**	Secondary	Primary	
ABS Sensor	Sensed	No		No	Sensed	No
Modulator	Modulated	No		No	Modulated	Modulated
Chamber	Any	Any		Any	Any	Any
Brake	15" x 4"	15" x 4"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

	Steering Axle			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		For Suspension Group #1		

	Steering Axle			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		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 6
Tractor or Truck
Tri-Drive, Twin Steer

	Steering Axle			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	15" x 4"	15" x 4"		Any	Any	Any
Brake	15x5 or More	15x5 or More		Any	Any	Any
Suspension	Any	Any		For Suspension Group #1		

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		For Suspension Group #2		

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