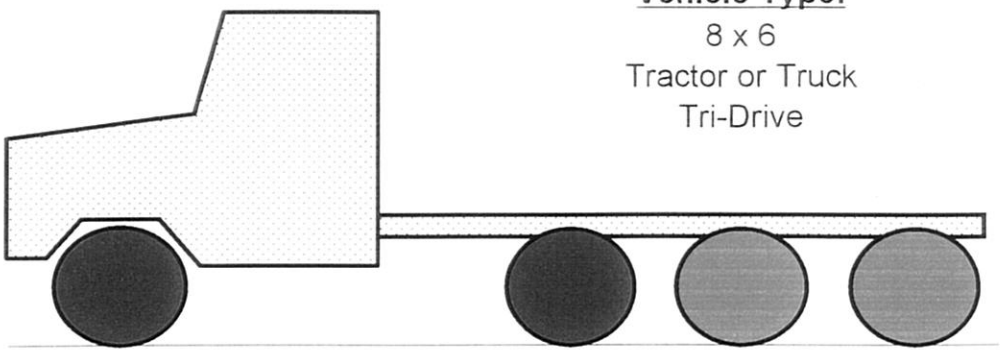
Design Rules For Valves And ABS

Vehicle Type:
8 x 6
Tractor or Truck
Tri-Drive



	Steering Axle		Drive Axles		
Standard Valve	Quick Release	**Configuration #1a**	Relay-1	Relay-2	
Hold-Off	6 psi sustained	413-002, -011	5.5 psi	5.5 psi	
Circuit	Secondary	432-015, 22, 26	Secondary	Primary	
ABS Sensor	Sensed		No	No	Sensed
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any
Brake	15" x 4"	402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1	

Standard Valve	Quick Release	**Configuration #1b**	Relay-1	Relay-2	
Hold-Off	6 psi sustained	413-002, -011	5.5 psi	5.5 psi	
Circuit	Secondary	432-015, 22, 26	Secondary	Primary	
ABS Sensor	Sensed		No	Sensed	No
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any
Brake	15" x 4"	402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2	

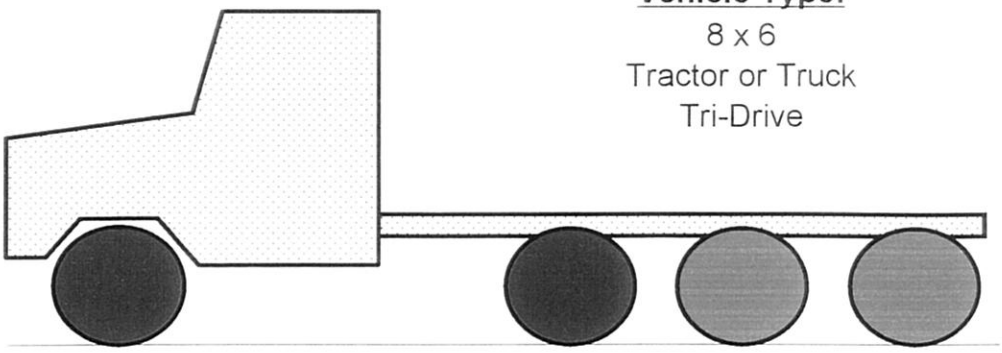
Standard Valve	Quick Release	**Configuration #2a**	Relay-1	Relay-2	
Hold-Off	3 psi sustained	413-002, -012	4.0 psi	5.5 psi	
Circuit	Secondary	432-014, 23, 27	Secondary	Primary	
ABS Sensor	Sensed		No	No	Sensed
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any
Brake	15x5 or Larger	Not 402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1	

Standard Valve	Quick Release	**Configuration #2b**	Relay-1	Relay-2	
Hold-Off	3 psi sustained	413-002, -012	4.0 psi	5.5 psi	
Circuit	Secondary	432-014, 23, 27	Secondary	Primary	
ABS Sensor	Sensed		No	Sensed	No
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any
Brake	15x5 or Larger	Not 402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2	

Suspension Group #1: All Air Suspensions, Hendrickson Beam, Chalmers, R/W 6-Rod, Ridewell
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
8 x 6
Tractor or Truck
Tri-Drive



	Steering Axle		Drive Axles		
Optional Valve	Quick Release	**Configuration #3a**	Relay-1	Relay-2	
Hold-Off	3 psi sustained	413-002, -012	4.0 psi	4.0 psi	
Circuit	Secondary	432-021, 24	Secondary	Primary	
ABS Sensor	Sensed		No	No	Sensed
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any
Brake	15" x 4"	402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1	

Optional Valve	Quick Release	**Configuration #3b**	Relay-1	Relay-2	
Hold-Off	3 psi sustained	413-002, -012	4.0 psi	4.0 psi	
Circuit	Secondary	432-021, 24	Secondary	Primary	
ABS Sensor	Sensed		No	Sensed	No
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any
Brake	15" x 4"	402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2	

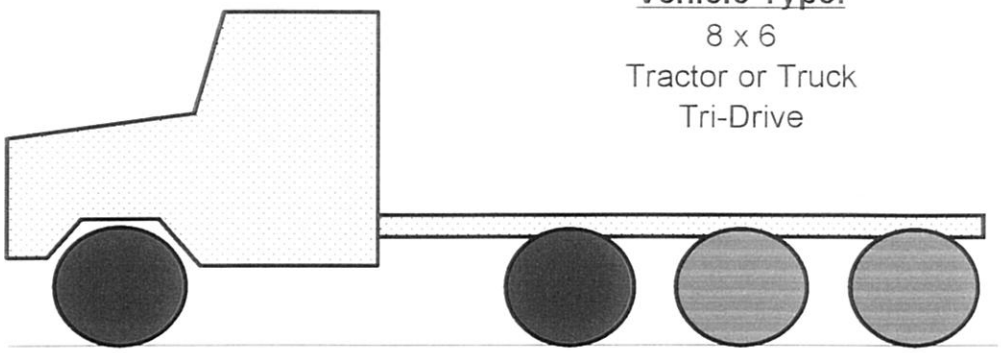
Optional Valve	Quick Release	**Configuration #4a**	Relay-1	Relay-2	
Hold-Off	0-1 psi	413-002, -006	4 psi	4 psi	
Circuit	Secondary	432-021, 24	Secondary	Primary	
ABS Sensor	Sensed		No	No	Sensed
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any
Brake	15x5 or Larger	Not 402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1	

Optional Valve	Quick Release	**Configuration #4b**	Relay-1	Relay-2	
Hold-Off	0-1 psi	413-002, -006	4 psi	4 psi	
Circuit	Secondary	432-021, 24	Secondary	Primary	
ABS Sensor	Sensed		No	Sensed	No
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	24" or Less		Any	Any	Any
Brake	15x5 or Larger	Not 402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2	

Suspension Group #1: All Air Suspensions, Hendrickson Beam, Chalmers, R/W 6-Rod, Ridewell
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
8 x 6
Tractor or Truck
Tri-Drive



	Steering Axle		Drive Axles		
Special Valve	Quick Release	**Configuration #5a**	Relay-1	Relay-2	
Hold-Off	0-1 psi	413-006 Only	4 psi	4 psi	
Circuit	Secondary	432-021, 24	Secondary	Primary	
ABS Sensor	Sensed		No	No	Sensed
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any
Brake	15" x 4"	402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1	

Special Valve	Quick Release	**Configuration #5b**	Relay-1	Relay-2	
Hold-Off	0-1 psi	413-006 Only	4 psi	4 psi	
Circuit	Secondary	432-021, 24	Secondary	Primary	
ABS Sensor	Sensed		No	Sensed	No
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any
Brake	15" x 4"	402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2	

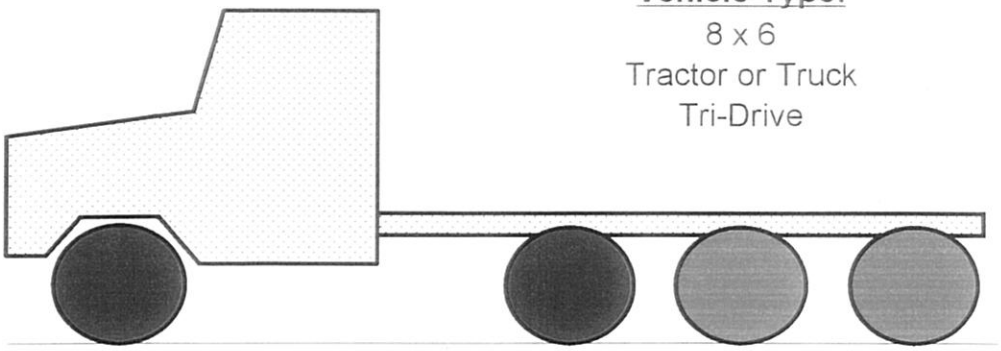
Optional Valve	Relay-1	**Configuration #6a**	Relay-2	Relay-3	
Hold-Off	5.5 psi	413-002, -011	5.5 psi	5.5 psi	
Circuit	Secondary	432-015, 22, 26	Secondary	Primary	
ABS Sensor	Sensed		No	No	Sensed
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any
Brake	15" x 4"	402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1	

Optional Valve	Relay-1	**Configuration #6b**	Relay-2	Relay-3	
Hold-Off	5.5 psi	413-002, -011	5.5 psi	5.5 psi	
Circuit	Secondary	432-015, 22, 26	Secondary	Primary	
ABS Sensor	Sensed		No	Sensed	No
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any
Brake	15" x 4"	402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2	

Suspension Group #1: All Air Suspensions, Hendrickson Beam, Chalmers, R/W 6-Rod, Ridewell
Suspension Group #2: F/L Spring, Reyco Tandem

Design Rules For Valves And ABS

Vehicle Type:
8 x 6
Tractor or Truck
Tri-Drive



	Steering Axle		Drive Axles		
Optional Valve	Relay-1	**Configuration #7a**	Relay-2	Relay-3	
Hold-Off	4.0 psi	413-002, -012	4.0 psi	4.0 psi	
Circuit	Secondary	432-021, 24	Secondary	Primary	
ABS Sensor	Sensed		No	No	Sensed
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any
Brake	15" x 4"	402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1	

Optional Valve	Relay-1	**Configuration #7b**	Relay-2	Relay-3	
Hold-Off	4.0 psi	413-002, -012	4.0 psi	4.0 psi	
Circuit	Secondary	432-021, 24	Secondary	Primary	
ABS Sensor	Sensed		No	Sensed	No
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any
Brake	15" x 4"	402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2	

Optional Valve	Relay-1	**Configuration #8a**	Relay-2	Relay-3	
Hold-Off	4.0 psi	413-002, -012	4.0 psi	5.5 psi	
Circuit	Secondary	432-014, 23, 27	Secondary	Primary	
ABS Sensor	Sensed		No	No	Sensed
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any
Brake	15x5 or Larger	Not 402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #1	

Optional Valve	Relay-1	**Configuration #8b**	Relay-2	Relay-3	
Hold-Off	4.0 psi	413-002, -012	4.0 psi	5.5 psi	
Circuit	Secondary	432-014, 23, 27	Secondary	Primary	
ABS Sensor	Sensed		No	Sensed	No
ABS Modulator	Modulated		No	Modulated	Modulated
Chamber	25" or More		Any	Any	Any
Brake	15x5 or Larger	Not 402-KA1	Any	Any	Any
Suspension	Any		Any	For Suspension Group #2	

Suspension Group #1: All Air Suspensions, Hendrickson Beam, Chalmers, R/W 6-Rod, Ridewell
Suspension Group #2: F/L Spring, Reyco Tandem