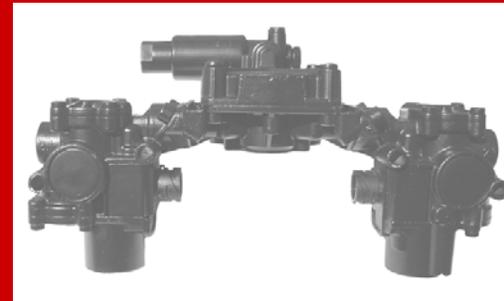


MERITOR/WABCO STYLE TRACTOR & TRAILER ABS VALVE INFORMATION



DISCLAIMER

All of the pictures, specifications, descriptions, text and other data in this catalog have been carefully checked and researched with original manufacturer's catalogs at the time of publication. We assume no responsibility should any information be deemed as incorrect, and reserve the right to make changes at any time without notice.

Manufacturer's names, symbols, numbers and descriptions are used for reference purposes only. It is not implied that any part listed is the product of these manufacturers.

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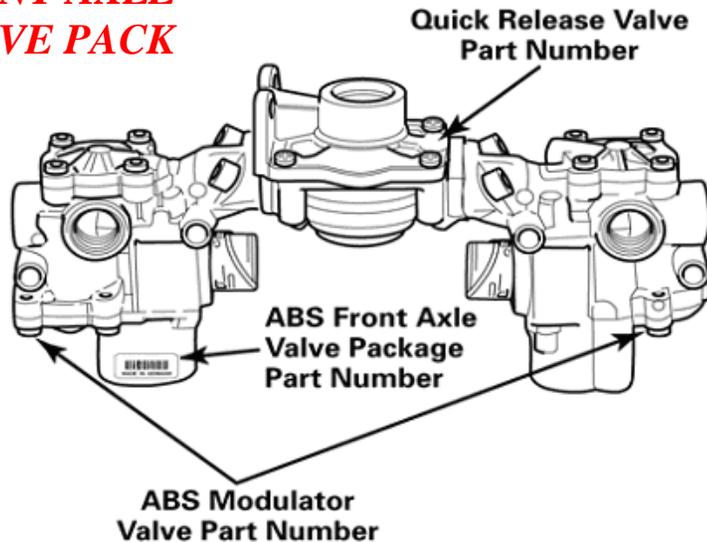


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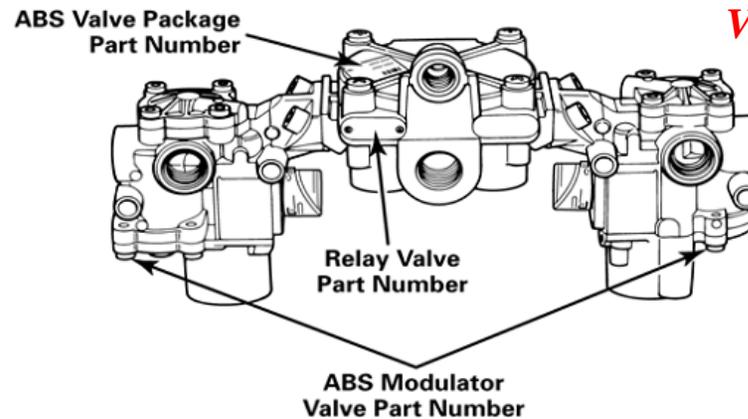
MERITOR WABCO STYLE TRACTOR ABS VALVE PACKS

FRONT AXLE VALVE PACK



Also available with
open style connectors

REAR AXLE VALVE PACK



Also available with
open style connectors

WABCO ABS

*Electronic System that monitors & controls
wheel speed during the braking process.
Found on Standard Air Brake Systems.*

ECU

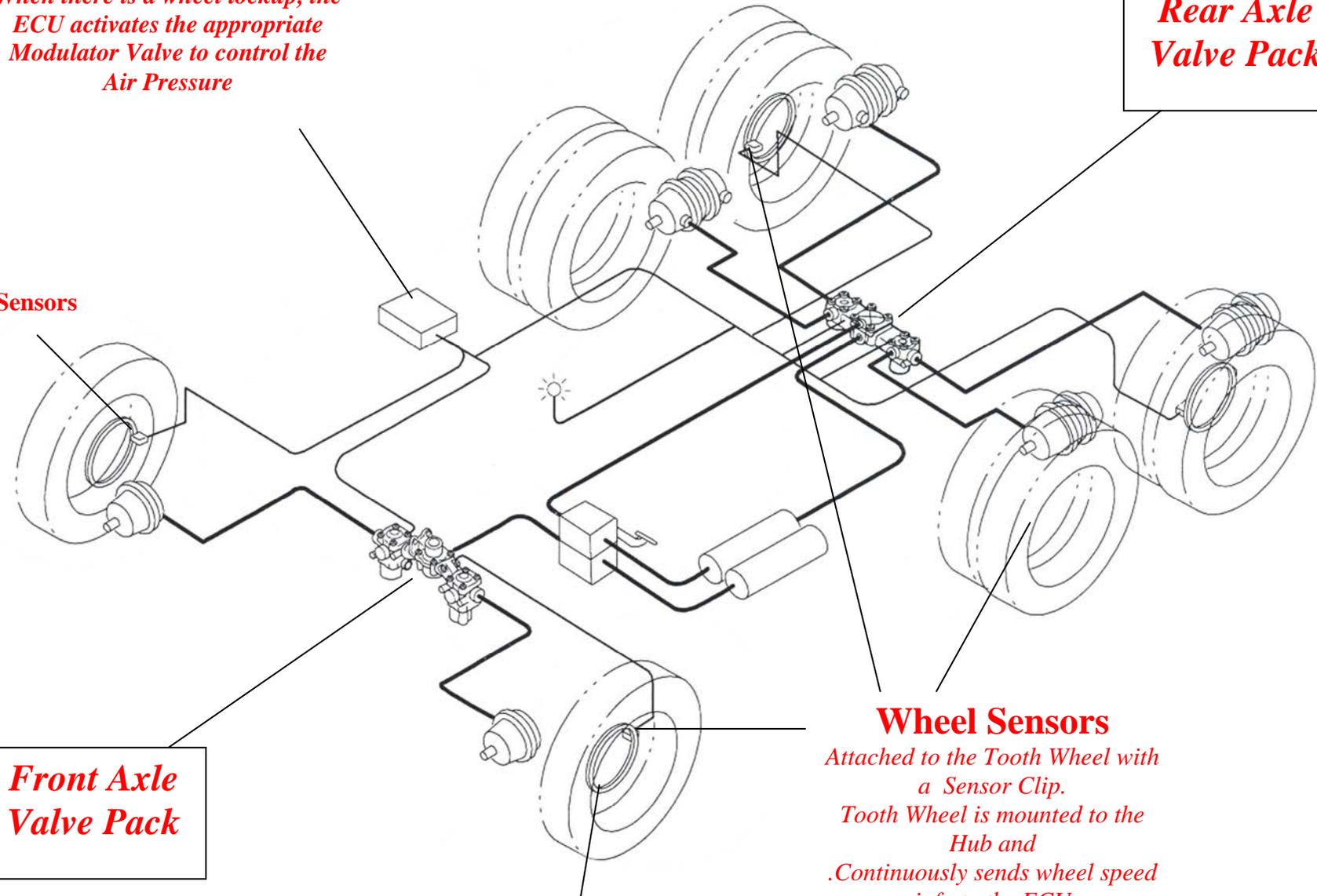
Electronic Control Unit

*Receives & Processes signals from
wheel speed sensors*

*When there is a wheel lockup, the
ECU activates the appropriate
Modulator Valve to control the
Air Pressure*

Wheel Sensors

**Rear Axle
Valve Pack**



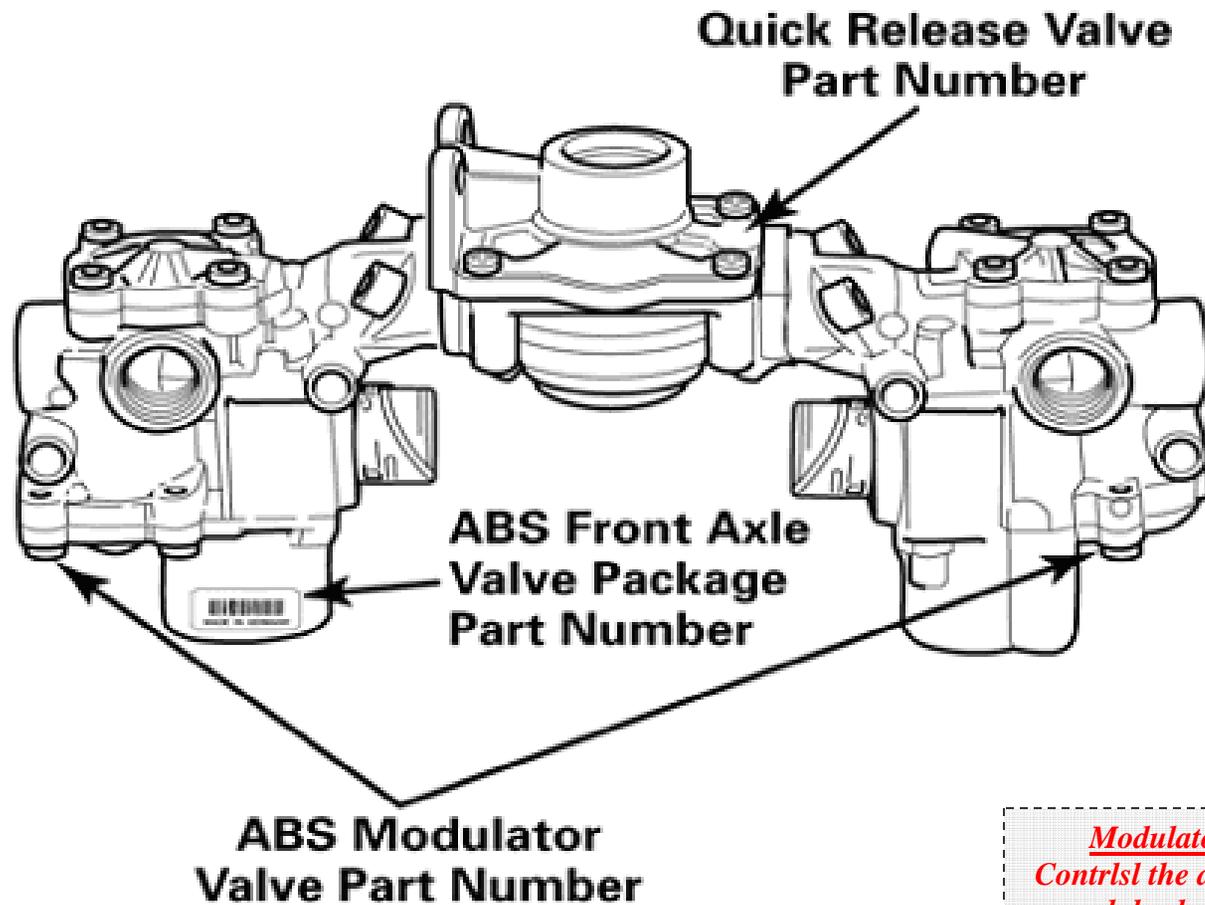
**Front Axle
Valve Pack**

Wheel Sensors

*Attached to the Tooth Wheel with
a Sensor Clip.
Tooth Wheel is mounted to the
Hub and
.Continuously sends wheel speed
info to the ECU*

Tooth Wheel

FRONT AXLE VALVE PACK



*Contains
A Quick Release
Valve with Two
Modulator Valves,
which is mounted in
the front of the
vehicle near the
Brake Chambers*

*Quick Release Valve
Supplies air to the
Service Chambers
located on the Front
Axle*

*Modulator Valves
Control the air pressure to
each brake during the
Braking process.*

FRONT AXLE VALVE PACKS

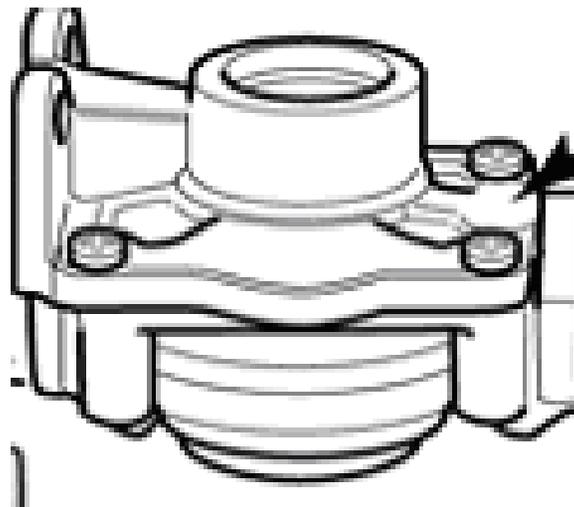
<p><u>CONTAINS:</u></p> <p><u>TWO</u> ABS MODULATOR VALVES</p> <p><u>ONE</u> QUICK RELEASE VALVE</p> <p>12V</p>		<p><u>INFORMATION:</u></p> <p>MODULATOR VALVE PORTS $\frac{1}{2}$" – 14NPT</p> <p>USUALLY ATTACHED TO A FRAME CROSS-MEMBER</p> <p>COMPATIBLE WITH E, D, & E VERSIONS OF MERITOR/WABCO ECU'S</p>		<p><u>INFORMATION:</u></p> <p>TRUCK/TRACTOR APPLICATION</p> <p>CONVERTIBLE CABLES TO SWITCH CONECTOR STYLES</p> <p>PART # <u>8946011322K</u> SCREW TO BAYONET <u>8946011332K</u> BAYONET TO SCREW</p>	
<u>COMPLETE Part #</u>	<u>Modulator Valve Left Part #</u>	<u>Quick Release Valve Part #</u>	<u>Modulator Valve Right Part #</u>	<u>Crack Pressure</u>	<u>Connector Type</u>
4725003000X	4721950800X	9735001040X	4721950810X	1 PSI	SCREW IN
4725003010X	4721950800X	9735001050X	4721950810X	3 – 4 PSI	SCREW IN
4725003020X	4721950800X	9735001060X	4721950810X	6 – 8 PSI	SCREW IN
4725003200X	4721950760X	9735001040X	4721950770X	1 PSI	BAYONET
4725003210X	4721950760X	4735001050X	4721950770X	3 – 4 PSI	BAYONET
4725003220X	4721950760X	9735001060X	4721950770X	6 – 8 PSI	BAYONET

<p><u>CONTAINS:</u></p> <p><u>ONE</u> O’RING</p> <p><u>TWO</u> MOUNTING BOLTS & GREASE PACK</p>	<p><u>MODULATOR VALVE</u> <u>INFORMATION:</u></p> <p>MODULATOR VALVE PORTS ½” – 14NPT</p> <p>12V</p>	<p><u>INFORMATION:</u></p> <p>REGULATES AIR PRESSURE TO EACH ABS CONTROLLED BRAKE</p>
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<u>MODULATOR VALVE</u> <u>PART #</u>	<u>CONNECTOR TYPE</u>	<u>SYSTEM CONFIGURATION</u>
4721950050X	SCREW IN	One Delivery 180° from Supply..... IN LINE STYLE
4721950520X	BAYONET	One Delivery 180° from Supply..... IN LINE STYLE
4721950760X	BAYONET	4S/4M
4721950770X	BAYONET	4S/4M
4721950780X	BAYONET	4S/4M, 6S/4M or 6S/6M
4721950790X	BAYONET	4S/4M, 6S/4M or 6S/6M
4721950800X	SCREW IN	4S/4M
4721950810X	SCREW IN	4S/4M
4721950820X	SCREW IN	4S/4M, 6S/4M or 6S/6M
4721950830X	SCREW IN	4S/4M, 6S/4M or 6S/6M
4721950920X	SCREW IN	One Delivery, 90° to the left of Supply, And One 180°
4721950930X	SCREW IN	One Delivery, 90° to the right of Supply, And One 180°
4721950940X	BAYONET	One Delivery, 90° to the left of Supply, And One 180°
4721950950X	BAYONET	One Delivery, 90° to the right of Supply, And One 180°

<p><u>CONTAINS:</u></p> <p><u>TWO</u> O'RINGS</p> <p><u>FOUR</u> MOUNTING BOLTS & GREASE PACK</p>	<p><u>QUICK RELEASE VALVE</u> <u>INFORMATION</u></p> <p><i>Supplies Air to Service Chambers on Front Axle</i></p>	<p><u>APPLICATION:</u></p> <p>FRONT AXLE ABS VALVE PACKS</p>
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<u>QUICK RELEASE VALVE</u> <u>PART #</u>	<u>SUPPLY PORT</u>	<u>CRACK PRESSURE</u>
9735001040X	½" -14 NPTF	1 PSI
9735001050X	½" -14 NPTF	3 – 4 PSI
9735001060X	½" -14 NPTF	6 - 8 PSI



Connector Types *Bayonet vs Screw In*

Screw In (Open Style)

Exhaust Solenoid
Blue Wire

Inlet Solenoid
Brown Wire

Ground Terminal



Bayonet

Exhaust Solenoid
Blue Wire

Inlet Solenoid
Brown Wire

Ground Terminal



Use the following cables to switch connector styles

Screw In to Bayonet: 8946011322K

Bayonet to Screw In: 8946011332K

Definitions

ABS	ANTI-LOCK BRAKING SYSTEM Monitors and Controls Wheel Speed when Braking
ECU	ELECTRONIC CONTROL UNITS Receives information from the Sensors . Controls Air Pressure through Modulator Valve on a wheel lock up
ATC	AUTOMATIC TRACTION CONTROL Improves traction on slippery surfaces Attached to Relay Valve

REAR AXLE VALVE PACKS

9730110220X

RELAY VALVE

*Supplies Air to Tandem Brakes
on Rear Axles*

4725001230X

PICTURED

1/4" NPT

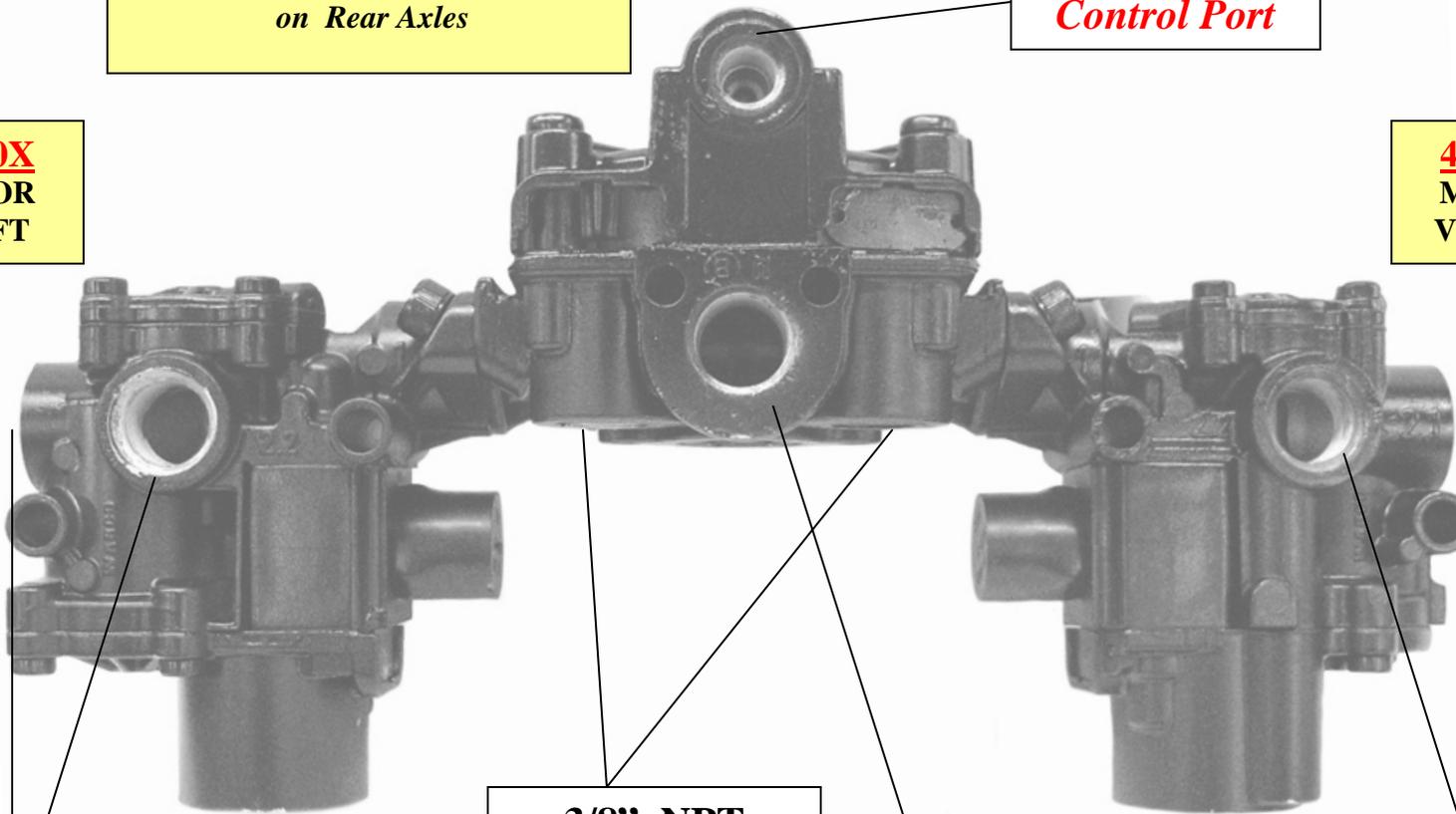
Control Port

4721950780X

**MODULATOR
VALVE LEFT**

4721950790X

**MODULATOR
VALVE RIGHT**



3/8" NPT
Delivery Ports

1/2" NPT
Delivery Ports

1/2" NPT
Supply Port

1/2" NPT
Delivery Ports

<u>Part #</u>	<u>Description</u>	<u>Crack Pressure</u>	<u>System Config</u>	<u>Volts</u>	<u>Connector Type</u>	<u>Modulator Ports</u>	<u>Contains:</u>	<u>Contents</u>
4725001000X	Rear Axle	4psi	4S/4M	12	Screw In	½" – 14 NPT	1)47219508100X 1)4721950810X 1)9730110210X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve
4725001010X	Rear Axle	5.5psi	4S/4M	12	Screw In	½" – 14 NPT	1)4721950800X 1)4721950810X 1)9730110220X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve
4725001020X	Rear Axle	4psi	4S/4M 6S/4M	12	Screw In	½" – 14 NPT	1)4721950820X 1)4721950830X 1)9730110210X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve
4725001030X	Rear Axle	5.5psi	4S/4M 6S/4M	12	Screw In	½" – 14 NPT	1)4721950820X 1)4721950830X 1)9730110220X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve
4725001200X	Rear Axle	4psi	4S/4M	12	Bayonet	½" – 14 NPT	1)4721950760X 1)4721950770X 1)9730110210X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve
4725001210X	Rear Axle	5.5psi	4S/4M	12	Bayonet	½" – 14 NPT	1)4721950760X 1)4721950770X 1)9730110220X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve
4725001220X	Rear Axle	4psi	4S/4M 6S/4M	12	Bayonet	½" – 14 NPT	1)4721950780X 1)4721950790X 1)9730110210X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve
4725001230X	Rear Axle	5.5psi	4S/4M 6S/4M	12	Bayonet	½" – 14 NPT	1)4721950780X 1)4721950790X 1)9730110220X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve
4725001240X	Rear Axle	4psi	6S/4M	12	Bayonet	½" – 14 NPT	1)4721950780X 1)4721950790X 1)9730110230X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve
4725001250X	Rear Axle	5.5psi	6S/6M	12	Bayonet	½" – 14 NPT	1)4721950780X 1)4721950790X 1)9730110240X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve
4725002030X	Rear Axle	5.5psi	4S/4M 6S/4M	12	Screw In	½" – 14 NPT	1)4721950820X 1)4721950830X 1)9730110260X 1)4721707910X	1)ModulatorValve (Left) 1)Modulator Valve (Right) 1)Relay Valve 1)ATC Valve

4725002220X	Rear Axle	4psi	4S/4M 6S/6M	12	Bayonet	½" – 14 NPT	1)4721950780X 1)4721950790X 1)9730110250X 1)4721707970X	1)Modulator Valve (Left) 1)Modulator Valve (Right) 1)Relay Valve 1)ATC Valve
4725002230X	Rear Axle	5.5psi	4S/4M 6S/6M	12	Bayonet	½" – 14 NPT	1)4721950780X 1)4721950790X 1)9730110260X 1)4721707970X	1)Modulator Valve (Left) 1)Modulator Valve (Right) 1)Relay Valve 1)ATC Valve
4725002240X	Rear Axle	4psi	6S/6M	12	Bayonet	½" – 14 NPT	1)4721950780X 1)4721950790X 1)9730110270X 1)4721707970X	1)Modulator Valve (Left) 1)Modulator Valve (Right) 1)Relay Valve 1)ATC Valve
4725002250X	Rear Axle	5.5psi	6S/6M	12	Bayonet	½" – 14 NPT	1)4721950780X 1)4721950790X 1)9730110280X 1)4721707970X	1)Modulator Valve (Left) 1)Modulator Valve (Right) 1)Relay Valve 1)ATC Valve

4S/4M

4 Wheel Speed
Sensors
4 Modulator Valves

Standard for most
Air Brake Vehicles

4S/4M With ATC

4 Wheel Speed
Sensors
4 Modulator Valves

Improves Traction
In Bad Weather
Conditions

Driver Must Manually
Engage inter-angle
Differential for
Optimum Performance

6S/4M

6 Wheel Speed
Sensors
4 Modulator Valves

Provides Increased
Traction when needed

6S/6M With ATC

6 Wheel Speed
Sensors
6 Modulator Valves

Fully automatic
system
Provides highest level
of ATC Traction

REAR ABS VALVE PACKAGE *with* TRACTION CONTROL VALVE (ATC)
4725002230X

Pictured

4721707970X

ATC Valve

9730110260X

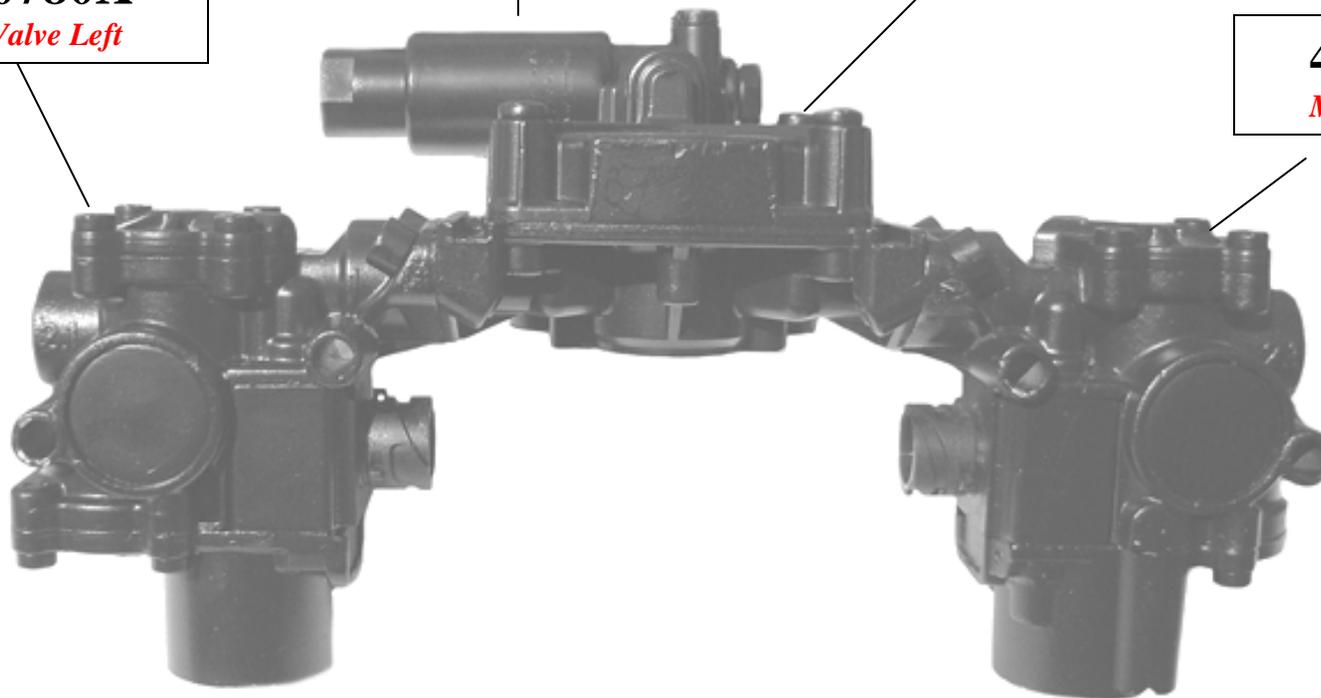
Relay Valve

4721950780X

Modulator Valve Left

4721950790X

Modulator Valve Right



Rear Axle ValvePack

Combines TWO modulator valves & ONE service brake relay valve

Two connector types

Bayonet or Screw In

ATC Automatic Traction Control Valve

- ❖ **Higher Reliability**
- ❖ **If one wheel is spinning faster than the other, the ATC valve will apply the brake until traction is regained**
- ❖ **If both wheels are on a poor traction surface, then the ATC valve will reduce engine power so traction will return**
- ❖ **“Wheel Spin” light will warn you of bad road conditions**
- ❖ **Reduces chance of Jackknife, caused by excessive wheel spin.**
- ❖ **Compatible with C, D and E versions of Meritor WABCO Style ECU’s**
- ❖ **ATC may be used with individual modulator valves, or installed with the ABS valve package**

When the ATC valve is installed with the Modulator Valve, a Solenoid valve is also mounted on the frame near the rear of the vehicle



When the ATC Valve is installed with the whole ABS valve package, the ATC Valve is attached to the Relay Valve



AUTOMATIC TRACTION CONTROL VALVES

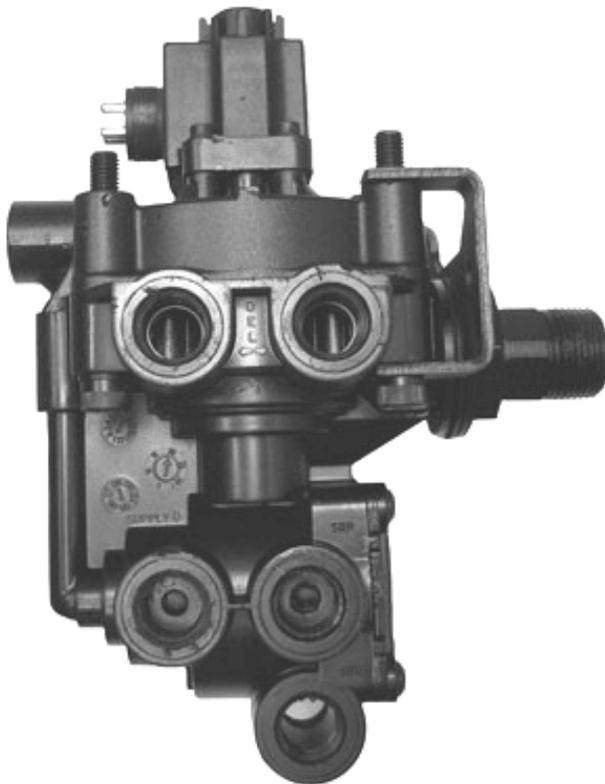
PART NUMBER	VOLTAGE	THREAD SIZE	INFORMATION
4720706260	24	M12 X 1.5 Female – 3 pin	ATC Only Bayonet Style Delivery port adjacent to solenoid connection
4721706000	24	M12 X 1.5 Female – 3 pin	ATC Only Bayonet Style Delivery port opposite to solenoid connection
4721708610	12	¼” – 18 NPTF, 1/8” – 27 NPTF Male – 2 pin	ATC Only Delivery port opposite solenoid connection
4721708670	12	½” – 27NPTF Male 2 pin	ATC or RSC Valve Bayonet Style Delivery port opposite solenoid connection
4721708710	12	¼” – 18NPTF 1/8” – 27NPTF Male 2 pin	ATC Only Delivery port adjacent to solenoid connection
4721708770	12	½” – 27NPTF Male 2 pin	ATC or RSC Valve Bayonet Style Delivery port adjacent to solenoid connection
4721709900	24	¼” – 18NPTF Female 2 pin 1/8” – 27NPTF	ATC Only Delivery port opposite solenoid connection
4721709910	12	¼” – 18NPTF Female 2 pin 1/8” – 27NPTF	ATC Only Delivery port opposite solenoid connection
4721709960	24	¼” – 18NPTF Female 2 pin	ATC or RSC Valve Bayonet Style Delivery port opposite solenoid connection
4721709970	12	¼” – 18NPTF Female 2 pin	ATC or RSC Valve Bayonet Style Delivery port opposite solenoid connection
4721361010	12	¼” – 18NPTF 2 pin	Double Check Valve must be used with this valve

FFABS

TRAILER VALVES

**2 & 4 PORT
DELIVERY**

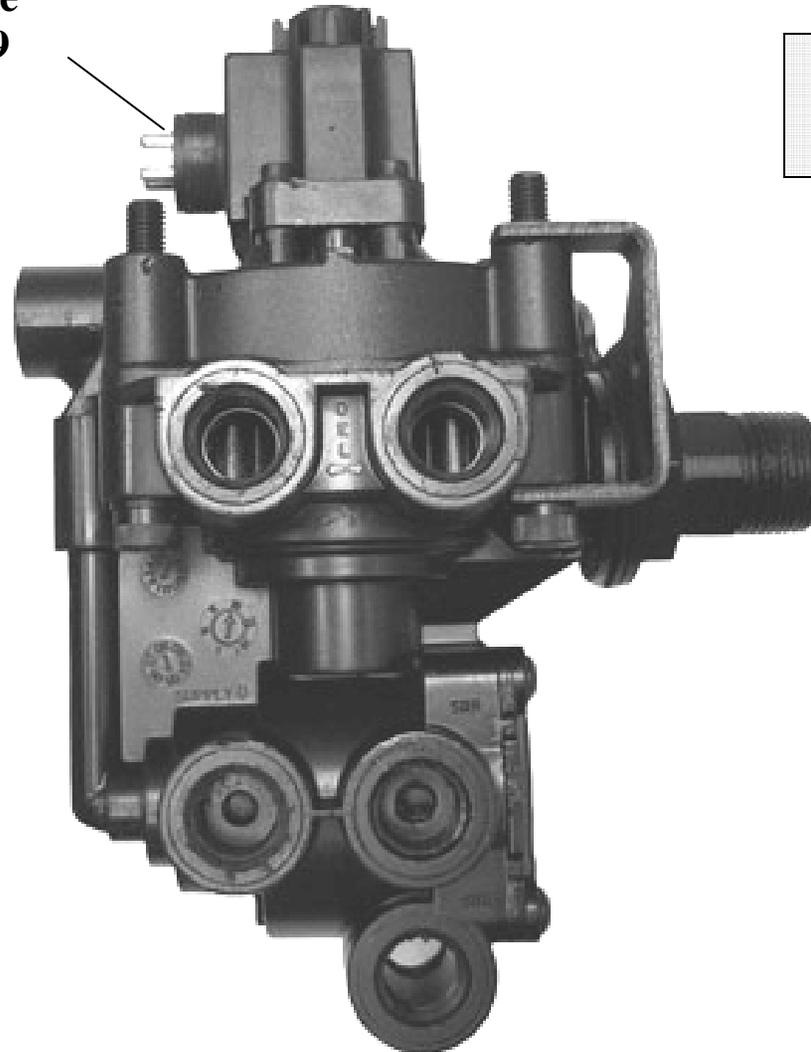
**2 & 6 PORT
DELIVERY**



FFABS 2 & 4 PORT DELIVERY

Open Style
Pre Oct 09

AL430668X
Pictured



2 PORT

Single Axle Application

2S/1M

or

4S/2M

4 PORT

Multiple Axle Application

2S/1M

or

3 or more Axles

4S/2M

FFABS TRAILER VALVES 2 & 4 PORT DELIVERY

<u>PART #</u>	<u>PORT CONFIG</u>	<u>NIPPLE SIZE</u>	<u>VOLTAGE</u>	<u>SPECS</u>	<u>OEM#</u>
AL430611X	4 PORT	1/2" NIPPLE	12V	3/8" PORTS SERVICE BRAKE PRIORITY	N4306CC
AL430614X <i>Replaces AL430611X</i>	4 PORT	3/4" NIPPLE	12V	3/8" PORTS SERVICE BRAKE PRIORITY	N4306CD
AL430620X	4 PORT	1/2" NIPPLE	24V	3/8" PORTS SERVICE BRAKE PRIORITY	N4306HA
AL430623X	4 PORT	1/2" NIPPLE	12V	3/8" PORTS SPRING BRAKE PRIORITY	N4306BC
AL430624X	4 PORT	3/4" NIPPLE	12V	3/8" PORTS SPRING BRAKE PRIORITY	N4306BD
AL430643X	2 PORT	1/2" NIPPLE	12V	3/8" PORTS SERVICE BRAKE PRIORITY	N4306DC
AL430644X	2 PORT	3/4" NIPPLE	12V	3/8" PORTS SERVICE BRAKE PRIORITY	N4306DD
AL430663X	2 PORT	1/2" NIPPLE	12V	3/8" PORTS SPRING BRAKE PRIORITY	N4306FC
AL430664X	2 PORT	3/4" NIPPLE	12V	3/8" PORTS SPRING BRAKE PRIORITY	N4306FD

AL430665X	4 PORT	1/2" NIPPLE	12V	3/8" PORTS SPRING BRAKE PRIORITY (4-SB PORT)	N4306JC
AL430666X	4 PORT	3/4" NIPPLE	12V	3/8" PORTS SPRING BRAKE PRIORITY (4-SB PORT)	N4306JD
AL430667X	4 PORT	1/2" NIPPLE	12V	3/8" PORTS SERVICE BRAKE PRIORITY (4-SB PORT)	N4306KC
AL430668X	4 PORT	3/4" NIPPLE	12V	3/8" PORTS SERVICE BRAKE PRIORITY (4-SB PORT)	N4306KD
AL430669X	2 PORT	1/2" NIPPLE	12V	3/8" PORTS SPRING BRAKE PRIORITY (4-SB PORT)	N4306LD
AL430670X	2 PORT	3/4" NIPPLE	12V	3/8" PORTS SPRING BRAKE PRIORITY (4-SB PORT)	N4306LD
AL430671X	2 PORT	3/4" NIPPLE	12V	3/8" PORTS SERVICE BRAKE PRIORITY (4-SB PORT)	N4306MC
AL430672X	2 PORT	3/4" NIPPLE	12V	3/8" PORTS SERVICE BRAKE PRIORITY (4-SB PORT)	N4306MD

FFABS 2 & 6 PORT DELIVERY

AL
Pictured

2 PORT

Single Axle Application

2S/1M

or

4S/2M

6 PORT

Multiple Axle Application

2S/1M

and

3 or more Axles

4S/2M

FFABS TRAILER VALVES 2 & 6 PORT DELIVERY

<u>PART #</u>	<u>PORT CONFIG</u>	<u>SPECS</u>	<u>VOLTAGE</u>	<u>SPECS</u>	<u>OEM#</u>
AL364040X	2 PORT	1/2" RES MOUNT	12V	3/8" PORTS	364140112
AL364041X	6 PORT	1/2" RES MOUNT	12V	3/8" PORTS	364141112
AL364045X	2 PORT	1/2" FRAME MOUNT	12V	3/8" PORTS	364140111
AL364046X	6 PORT	1/2" FRAME MOUNT	12V	3/8" PORTS	364141111
AL364080X	2 PORT	1/2" RES MOUNT	24V	3/8" PORTS	364318001

Frame Mount can be used in Either Application.....in order to do this.....re-position cover

ECU / MODULATOR VALVE ASSEMBLIES

BASIC
ECU/SINGLE
2S/1M

STANDARD
ECU/DUAL
2S/2M ONLY

PREMIUM
ECU/DUAL
2S/2M, 4S/2M, 4S/3M

<u>MODULATOR VALVE ASSEMBLY PART #</u>	<u>SYSTEM</u>	<u>USE</u>	<u>VOLTAGE</u>	<u>INFORMATION</u>
4005001010X	2S/1M	With Standard Trailers DO NOT use with Steerable Axles, Turntables or Dollies		BASIC
4005001020X	2S/2M	With Standard Trailers		STANDARD
4005001030X	2S/2M 4S/2M 4S/3M			PREMIUM
4005001040X	2S/1M	With Bracket With Steerable Axles, Turntables or Dollies		BASIC

*****These Units are found only on Trailers that were Produced after March 1, 2001.*****

<u>EASY STOP™</u> <u>ECU/MODULATOR</u> <u>VALVE ASSEMBLY</u> <u>PART #</u>	<u>SYSTEM</u>	<u>USE</u>	<u>VOLTAGE</u>	<u>INFORMATION</u>
4725000110X	2S/1M	With Steerable Axles, Turntables or Dollies	12V	Electronic Control Unit and ABS Relay Valve
4725000120X	2S/1M 2S/2M 4S/2M		12V	Electronic Control Unit and ABS Relay Valve
4725000130X	4S/3M		12V	Electronic Control Unit and ABS Relay Valve
4725000210X	2S/1M	With Standard Trailers DO NOT use with Steerable Axles, Turntables or Dollies	12V	Electronic Control Unit and ABS Relay Valve

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