

Technical Bulletin

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Subject: Recommended Air Line Sizes For Relay and Brake Proportioning Valves

The following chart can be used as a general recommendation for line sizes to be used when retrofitting or changing over to Bendix relay valves (R-12/14) and brake proportioning (BP-R1) valves on a typical tractor or straight truck. Deviation from these recommendations should be reviewed by the Original Equipment Manufacturer or Bendix H.V.S.G. since vehicle and component performance can be affected by line sizes.

LINE DESCRIPTION	RECOMENDED LINE SIZE
<i>CONTROL LINE</i>	3/8" O.D. Tubing
<i>SUPPLY LINE</i>	
<u>Single Rear Axle</u>	1/2" O.D. Tubing
<u>Tandem Rear Axle</u>	5/8" O.D. Tubing
<i>DELIVERY LINE</i>	
<u>Single Rear Axle</u>	
— Single Delivery Line From Relay Valve to Tee on Axle	5/8" I.D. Hose to Tee 3/8" I.D. Hose or 1/2" O.D. Tubing From Tee to Actuator
— Two Delivery Lines From Relay Valve Direct to Actuators	3/8" I.D. Hose
<u>Tandem Rear Axle</u>	
— Two Delivery Lines From Relay Valve to Tee on Each Axle	5/8" I.D. Hose to Each Tee 3/8" I.D. Hose or 1/2" O.D. Tubing From Tee to Actuator
— Four Delivery Lines From Relay Valve Direct to Actuators	3/8" I.D. Hose

