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> Bendix 800630 - E-8P Dual Circuit Foot Brake Valve - User Manual

## Bendix 800630

# Bendix 800630 - E-8P Dual Circuit Foot Brake Valve

Model: 800630 | Brand: Bendix



Image: Bendix 800630 E-8P Dual Circuit Foot Brake Valve, showing its robust construction and multiple ports.

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of the Bendix 800630 E-8P Dual Circuit Foot Brake Valve. This floor-mounted, treadle-operated valve is designed for use in air brake systems, providing precise control over dual brake circuits for enhanced safety and performance.

Understanding the components and procedures outlined in this manual is crucial for ensuring the longevity and reliable function of your brake system. Please read all instructions carefully before proceeding with installation or operation.

## SAFETY INFORMATION

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**WARNING:**

- Always disconnect the vehicle's battery and drain the air system before performing any maintenance or installation.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
- Ensure the vehicle is properly supported and secured before working underneath it.
- Only qualified personnel should perform installation and repairs on air brake systems. Improper installation can lead to brake failure and serious injury.
- Use only genuine Bendix replacement parts or approved equivalents.
- Never operate a vehicle with a malfunctioning brake system.

## SETUP AND INSTALLATION

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The Bendix 800630 E-8P valve is a floor-mounted unit. Proper installation is critical for its function and the safety of the vehicle.

1. **Preparation:** Ensure the mounting surface is clean, flat, and free from obstructions. Verify that all necessary air lines and fittings are available and in good condition.
2. **Mounting:** Securely mount the brake valve to the vehicle floor using appropriate hardware. Ensure the valve is oriented correctly as per the vehicle manufacturer's specifications. The treadle should operate smoothly without binding.
3. **Air Line Connections:** Connect the primary and secondary air supply lines to the designated inlet ports on the valve. Connect the delivery lines to the respective brake chambers. Refer to the vehicle's air system diagram for correct port identification. Ensure all connections are tight and leak-free.
4. **Electrical Connections (if applicable):** If the valve includes electrical switches (e.g., stop light switch), connect them according to the vehicle's wiring diagram.
5. **System Test:** After installation, slowly build air pressure in the system. Check for any air leaks using a soap solution. Depress and release the brake treadle multiple times to ensure proper operation and full air pressure delivery to the brake chambers. Verify that the stop lights activate when the pedal is depressed.

*Consult the vehicle manufacturer's service manual for specific torque specifications and detailed air system schematics.*

## OPERATING PRINCIPLES

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The E-8P Dual Circuit Foot Brake Valve operates as the primary control for the vehicle's air brakes. When the treadle is depressed, it modulates air pressure from the primary and secondary air tanks to the corresponding brake chambers, applying the brakes.

- **Dual Circuit Design:** This valve features two independent circuits, typically one for the front brakes and one for the rear brakes. This design provides a safety redundancy, allowing partial braking capability even if one circuit fails.
- **Treadle Operation:** The amount of brake application is proportional to the force applied to the treadle. A light press results in light braking, while a full press provides maximum braking effort.
- **Release:** Releasing the treadle exhausts air from the brake chambers, releasing the brakes.

## MAINTENANCE

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Regular inspection and maintenance are essential for the reliable operation of your Bendix brake valve.

- **Daily/Pre-Trip Inspection:** Check for visible air leaks around the valve and its connections. Ensure the treadle operates smoothly and returns to its fully released position.
- **Periodic Inspection (e.g., every 3-6 months):**
  - Inspect all air lines connected to the valve for cracks, chafing, or damage. Replace as necessary.
  - Check mounting bolts for tightness.
  - Listen for internal air leaks when the system is pressurized and the treadle is both released and depressed.
  - Ensure the valve's exhaust port is clear of debris.
- **Air System Cleanliness:** Ensure the vehicle's air dryer is functioning correctly to prevent moisture and contaminants from entering the brake system, which can damage the valve.

## TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, consult a certified technician.

Problem	Possible Cause	Solution
Air Leak from Valve Exhaust Port	Internal valve seal wear or contamination.	Inspect valve. If leak persists, valve may need rebuilding or replacement.
Slow Brake Application/Release	Restricted air lines, clogged exhaust port, or internal valve issue.	Check air lines for kinks or blockages. Clear exhaust port. If problem persists, inspect valve.
No Brake Application	No air supply, severe internal valve failure, or disconnected air lines.	Verify air system pressure. Check all air line connections. Inspect valve for major damage.
Uneven Braking	Issue with one of the dual circuits, or problems with brake chambers/adjusters.	Check air pressure output from each circuit of the valve. Inspect brake chambers and slack adjusters.

## SPECIFICATIONS

Key technical specifications for the Bendix 800630 E-8P Dual Circuit Foot Brake Valve:

Attribute	Detail
Manufacturer	Bendix
Model Number	800630
Product Type	Foot Brake Valve
Valve Type	Dual Circuit, Floor-Mounted, Treadle Operated
Item Weight	4.3 pounds
Package Dimensions	10.38 x 6 x 4.75 inches
Inlet Connection Type	Compression

Attribute	Detail
Number of Ports	2 (Dual Circuit)
Exterior Finish	Machined

## WARRANTY AND SUPPORT

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For information regarding the warranty of your Bendix 800630 E-8P Dual Circuit Foot Brake Valve, please refer to the warranty documentation provided with your purchase or visit the official Bendix website. Warranty terms and conditions may vary.

For technical support, service, or genuine replacement parts, please contact Bendix customer service or an authorized Bendix distributor. Always provide the model number (800630) when seeking support to ensure accurate assistance.

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