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## Bendix 281923N

# Bendix 281923N DV-2 Automatic Reservoir Drain Valve User Manual

Model: 281923N | Brand: Bendix

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of the Bendix 281923N DV-2 Automatic Reservoir Drain Valve. This genuine Bendix valve is designed to automatically drain moisture and contaminants from air reservoirs in commercial vehicle air brake systems, ensuring optimal performance and longevity of the system components. It is a direct replacement for Volvo G665643 and 1024591.



Figure 1: Bendix 281923N DV-2 Automatic Reservoir Drain Valve. A close-up view of the metallic gray valve housing, featuring four hexagonal bolts securing the top cover. A central push-pin mechanism is visible, labeled with text indicating "PUSH PIN TO DRAIN MANUALLY". The Bendix logo is also present on the surface. This valve is crucial for maintaining a dry air brake system.

## 2. SAFETY PRECAUTIONS

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- Always depressurize the air system before attempting any installation, maintenance, or removal procedures.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is properly secured and cannot move during service.
- Refer to the vehicle manufacturer's service manual for specific instructions related to the air brake system.
- Use only genuine Bendix replacement parts or approved equivalents.

## 3. SETUP AND INSTALLATION

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Proper installation is critical for the reliable operation of the DV-2 valve.

### 3.1 Pre-Installation Check

1. Verify that the new DV-2 valve (Part No. 281923N) matches the specifications required for your application.

2. Inspect the valve for any signs of damage from shipping.
3. Ensure all necessary fittings, such as the 1/4" Adapter Pc. No. 293248N and Port B Pipe Plug Pc. No. 233057N, are available and in good condition.

### 3.2 Installation Steps

1. Depressurize the air reservoir completely.
2. Remove the old drain valve from the air reservoir. Clean the mounting area thoroughly.
3. Apply a suitable thread sealant to the threads of the new DV-2 valve.
4. Thread the DV-2 valve into the air reservoir port. Tighten to the vehicle manufacturer's specified torque. Do not overtighten.
5. Connect any necessary drain lines or fittings to the valve's outlet port.
6. Re-pressurize the air system and check for air leaks using a soapy water solution.

## 4. OPERATING INSTRUCTIONS

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The Bendix DV-2 valve is designed for automatic operation, expelling moisture and contaminants from the air reservoir during air system cycling. No manual intervention is typically required for its primary function.

### 4.1 Automatic Operation

The valve automatically opens and closes in response to air pressure changes within the reservoir, typically during the compressor's unload cycle, to purge accumulated water and oil.

### 4.2 Manual Drain (If Equipped)

Some configurations of the DV-2 valve may include a manual drain feature (a push-pin or lever). To manually drain the reservoir:

1. Ensure the vehicle is safely parked and the air system is at operating pressure.
2. Locate the manual drain mechanism on the valve.
3. Carefully push or activate the mechanism to release accumulated moisture and air. Be aware that expelled air and water can be forceful.
4. Release the mechanism once clean air begins to exit, indicating the reservoir is drained.

## 5. MAINTENANCE

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Regular inspection and maintenance are crucial for the longevity and proper functioning of the DV-2 valve.

### 5.1 Daily/Pre-Trip Inspection

- Visually inspect the valve for any signs of damage, leaks, or corrosion.
- Listen for continuous air leaks from the valve, which may indicate a malfunction.

### 5.2 Periodic Maintenance (e.g., Quarterly/Annually)

- Manually drain the air reservoirs (if applicable) to ensure the valve is not clogged and to remove any remaining moisture.
- Check the valve's mounting for tightness.
- Clean the exterior of the valve to prevent dirt buildup.
- If the valve shows signs of malfunction (e.g., constant leaking, failure to drain), it should be replaced. The DV-2

valve is a sealed unit and is not designed for field repair.

## 6. TROUBLESHOOTING

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Symptom	Possible Cause	Solution
Continuous air leak from valve	Internal seal failure or debris lodged in valve.	Replace the DV-2 valve.
Water/oil accumulation in reservoir (valve not draining)	Valve clogged, internal malfunction, or incorrect installation.	Manually drain the reservoir. If problem persists, replace the DV-2 valve. Verify proper air system pressure cycling.
Valve appears damaged	Physical impact or corrosion.	Replace the DV-2 valve immediately.

If troubleshooting steps do not resolve the issue, contact a qualified service technician or Bendix customer support.

## 7. SPECIFICATIONS

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- **Model:** Bendix DV-2 Automatic Reservoir Drain Valve
- **Part Number:** 281923N
- **Material:** Stainless Steel
- **Inlet Connection Type:** Threaded
- **Number of Ports:** 2
- **Valve Type:** Globe Valve
- **Compliance:** CSA, ULC
- **Replacement For:** Volvo G665643, 1024591
- **Associated Parts:** 1/4" Adapter Pc. No. 293248N, Port B Pipe Plug Pc. No. 233057N

## 8. WARRANTY INFORMATION

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Bendix products are manufactured to high standards. For specific warranty terms and conditions applicable to the 281923N DV-2 Automatic Reservoir Drain Valve, please refer to the official Bendix warranty statement provided with your purchase or visit the official Bendix website. Keep your proof of purchase for warranty claims.

## 9. CUSTOMER SUPPORT

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For technical assistance, parts inquiries, or further information regarding the Bendix 281923N DV-2 Automatic Reservoir Drain Valve, please contact Bendix customer support or your authorized Bendix distributor. Contact information can typically be found on the official Bendix website or on product packaging.

*Note: This manual is intended as a guide. Always adhere to local regulations, vehicle manufacturer's guidelines, and professional safety practices.*