

POWERTEC 70135V

POWERTEC 70135V 4" Aluminum Blast Gate Instruction Manual

Model: 70135V

PRODUCT OVERVIEW

The POWERTEC 70135V 4" Aluminum Blast Gate is designed to optimize your dust collection system by efficiently regulating and directing airflow to specific woodworking machinery. This in-line gate allows precise control over vacuum flow, ensuring that suction is concentrated where it's needed most in your workshop. Constructed from durable aluminum with a robust stainless steel gate, it offers a long-lasting alternative to plastic versions.



Image: The POWERTEC 4-inch Aluminum Blast Gate, showcasing its robust construction and simple design.

Its universal fit, with a nominal 4-inch OD diameter (actual size tapers from 3-29/32 to 3-31/32 inches), makes it

compatible with most professional and home workshop dust collection systems using 4-inch ID hoses. It serves as a reliable port extension for various tools such as table saws, miter saws, planers, and drills.

KEY FEATURES

- **Efficient Airflow Control:** Maximizes dust collection system efficiency by regulating and directing airflow between machines.
- **Self-Cleaning Design:** Features a clog-proof groove (open slot) at the back, reducing the need for constant maintenance and preventing jamming.
- **Secure Locking Stop:** Includes a built-in stop that holds the gate precisely in position during operation, ensuring proper alignment.
- **Premium Construction:** Built with a heavy-duty aluminum body and a durable stainless steel gate for long-term reliability and resistance to air leakage.
- **Universal Compatibility:** Designed for a nominal 4-inch OD diameter, fitting most shop vacs and dust collector systems with 4-inch ID hoses.



PREMIUM STEEL GATE

POWERTEC®

Image: A close-up view highlighting the premium steel gate component of the blast gate.

SETUP AND INSTALLATION

The POWERTEC 4" Aluminum Blast Gate is designed for straightforward installation into your dust collection system. It can be integrated with properly sized plastic and metal ducts, as well as flexible hoses.

1. **Identify Connection Points:** Determine the specific points in your dust collection system where you need to control airflow to individual machines.
2. **Prepare Ducting:** Ensure that your 4-inch ID hoses or ducts are clean and free of debris at the connection points.
3. **Position the Blast Gate:** Place the blast gate in line with your ducting. For optimal sealing and operation, ensure the knob used to tighten the gate is positioned underneath or away from the main suction flow.
4. **Secure Connections:** Use appropriate clamps (e.g., hose clamps) to securely fasten the ducts or hoses to both ends of the blast gate. Ensure a tight fit to prevent air leakage.

5. **Test System:** After installation, test your dust collection system to verify proper airflow control and check for any leaks.

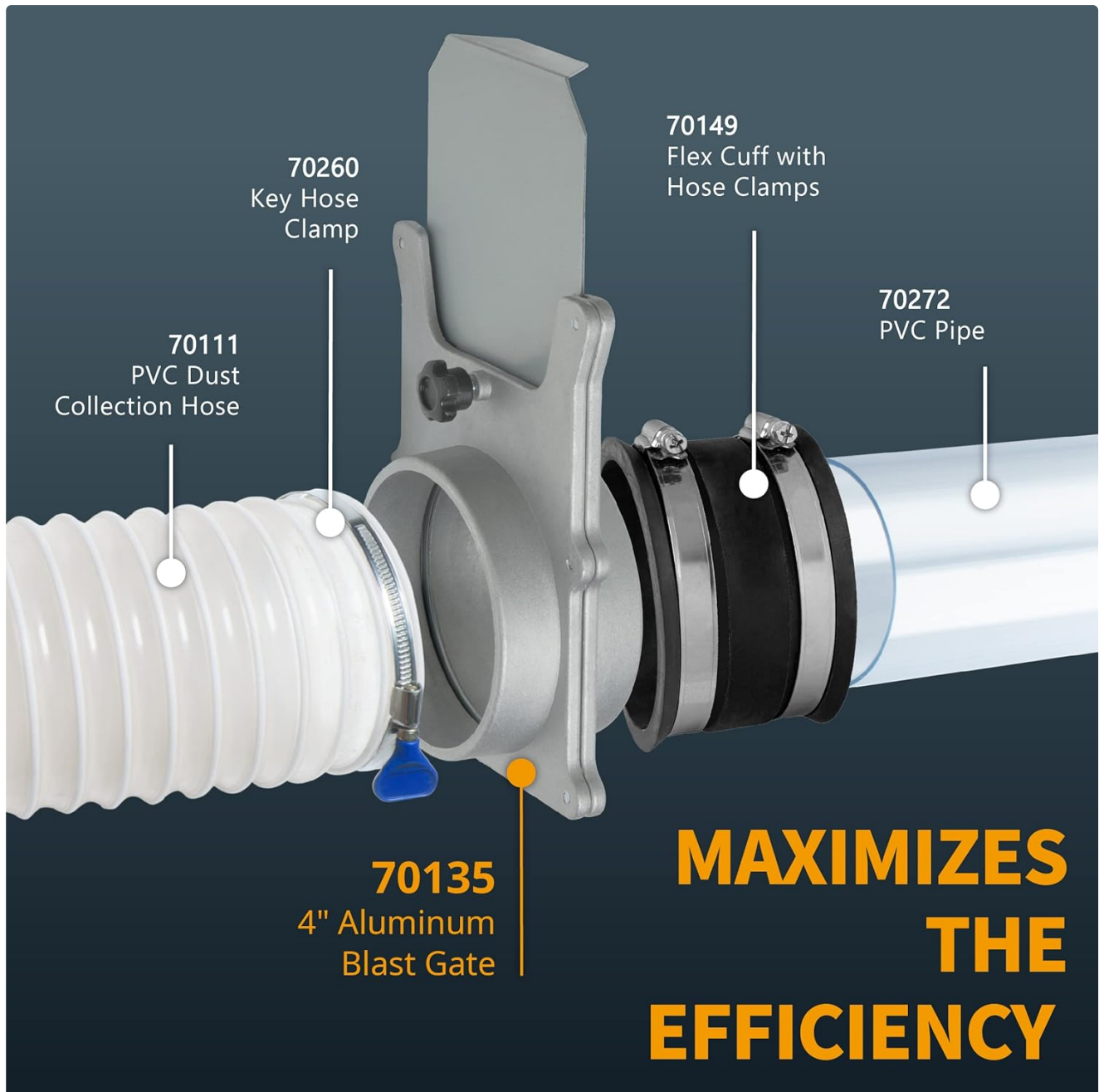


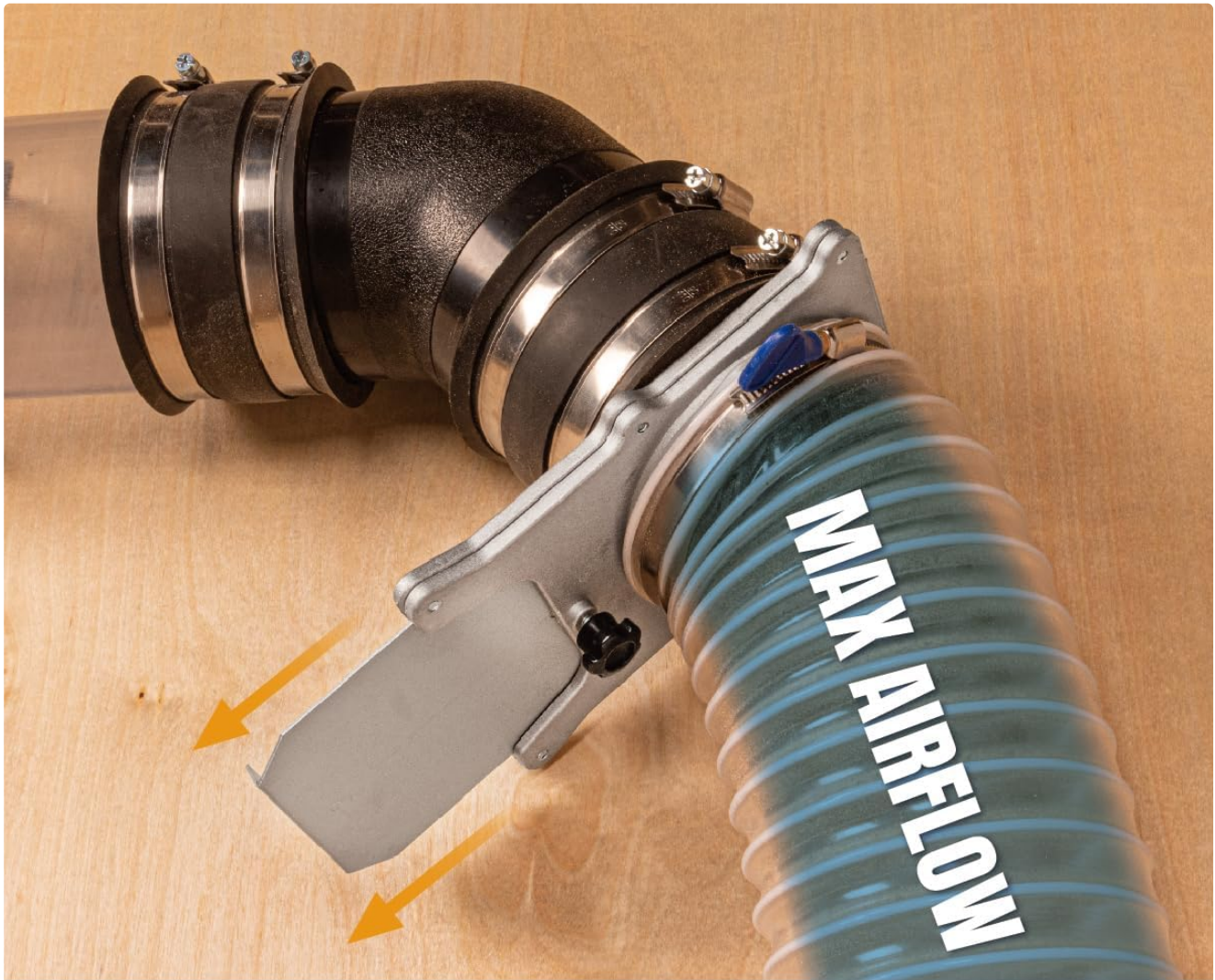
Image: An illustration demonstrating the connection of the 4" Aluminum Blast Gate (model 70135) with PVC dust collection hose, key hose clamp, flex cuff, and PVC pipe to maximize efficiency.

OPERATION

Operating the POWERTEC 4" Aluminum Blast Gate is simple and intuitive. The gate allows you to direct the vacuum flow to specific areas of your workshop, ensuring maximum suction at the active machine.

- **To Open:** Loosen the black knob slightly and slide the metal gate completely out of the main airflow path. This allows full suction to pass through the gate to the connected machine.
- **To Close:** Loosen the black knob slightly and slide the metal gate fully into the main airflow path until it reaches the built-in stop. This blocks suction to the connected machine, redirecting it to other open blast gates in your system.

- **Secure Position:** Once the gate is in the desired open or closed position, tighten the black knob to secure the gate and prevent accidental movement or air leakage.



Providing a reliable port extension for your table saws, miter saws, planers and other tools.

Image: The blast gate shown in an open position, indicating maximum airflow for connected tools like table saws, miter saws, planers, and drills.



Image: Two blast gates side-by-side, illustrating the fully open and fully closed positions of the internal gate.

MAINTENANCE

The POWERTEC 4" Aluminum Blast Gate is designed for low maintenance thanks to its self-cleaning feature. The open slot at the back of the gate allows for clog-free operation, minimizing the accumulation of sawdust and debris that can impede movement.

- **Regular Inspection:** Periodically inspect the gate and its sliding mechanism for any signs of excessive dust buildup or obstruction.
- **Cleaning:** If necessary, use compressed air or a brush to clear any accumulated dust from the sliding channel and the gate itself.
- **Lubrication:** No regular lubrication is typically required due to the self-cleaning design and smooth metal-on-metal operation.

TROUBLESHOOTING

Issue: Poor Seal or Air Leakage

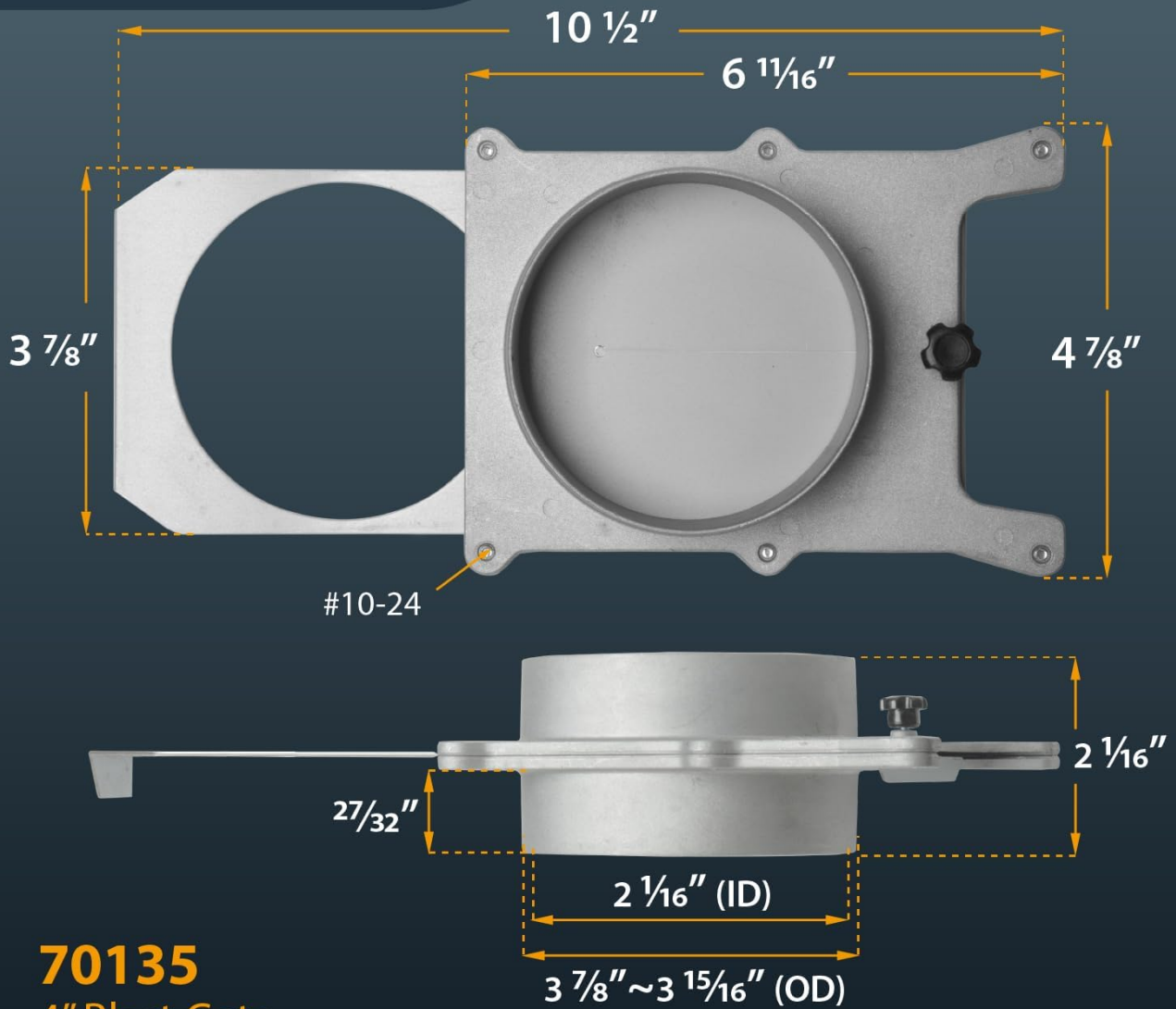
If you experience air leakage or a less-than-optimal seal when the blast gate is closed, consider the following:

- **Proper Installation:** Ensure the blast gate is installed correctly with the tightening knob positioned underneath or away from the main suction flow. This orientation helps the gate seat properly.
- **Adjusting the Gate Plate:** In some cases, the metal gate plate may need a slight adjustment to achieve a tighter seal. You can carefully bend the leading edge of the plate slightly upwards. When the gate is then slid into the closed position and the knob is tightened, this slight bend can help create a more secure seal against both sides of the housing.
- **Tighten Knob:** Always ensure the black knob is tightened firmly once the gate is in the desired position (open or closed) to maintain the seal and prevent accidental movement.

SPECIFICATIONS

Attribute	Value
Model Number	70135V
Size	4" (Nominal OD, actual size tapers from 3-29/32 to 3-31/32 Inch)
Material	Aluminum body, Stainless Steel gate
Item Weight	1.17 pounds
Product Dimensions	9.5 x 5.5 x 2.16 inches
Included Components	Aluminum Blast Gate (1pk)
Country of Origin	Taiwan

Dimensions



70135
4" Blast Gate

Image: A detailed diagram illustrating the precise dimensions of the POWERTEC 70135 4" Blast Gate.

Available Sizes (Other Models)

POWERTEC offers a range of aluminum blast gates in various sizes to suit different dust collection needs:



Aluminum Blast Gates

Spec	Includes	Item No.	Product
2-1/2"	1PK	70134V	2-1/2" Aluminum Blast Gate
	2PK	70134-P2	
	6PK	70134-P6V	
3"	1PK	70165V	3" Aluminum Blast Gate
	2PK	70165-P2	
4"	1PK	70135V	4" Aluminum Blast Gate
	2PK	70135-P2	
	4PK	70135-P4	
	6PK	70135-P6V	

Image: A table showing available sizes for POWERTEC Aluminum Blast Gates, including 2-1/2", 3", and 4" options with corresponding item numbers and pack quantities.



Aluminum Blast Gates

Spec	Includes	Item No.	Product
5"	1PK	70166V	5" Aluminum Blast Gate
	2PK	70166-P2	
6"	1PK	70227V	6" Aluminum Blast Gate
	2PK	70227-P2	
	4PK	70227-P4	

Image: A continuation of the table showing available sizes for POWERTEC Aluminum Blast Gates, including 5" and 6" options with corresponding item numbers and pack quantities.

WARRANTY AND SUPPORT

For any questions regarding the POWERTEC 70135V 4" Aluminum Blast Gate, including warranty information, technical support, or replacement parts, please contact POWERTEC customer service directly. As a leading manufacturer of high-quality woodworking tools and accessories, POWERTEC is committed to customer satisfaction and product development.

Please refer to the official POWERTEC website or your purchase documentation for the most current contact information and warranty details.

You can also visit the [POWERTEC Store on Amazon](#) for additional products and information.

	<p>POWERTEC MT4000 Miter Saw Stand Owner's Manual</p> <p>Comprehensive owner's manual for the POWERTEC MT4000 Miter Saw Stand, covering safety, assembly, operation, maintenance, and warranty information.</p>
	<p>Powertec PT3200i 3000W Digital Inverter Generator Operating Instructions</p> <p>Operating instructions for the Powertec PT3200i 3000W Digital Inverter Generator, covering safety, features, operation, maintenance, and troubleshooting.</p>
	<p>POWERTEC PTi4500 4500W Digital Inverter Generator: Operating Instructions</p> <p>Comprehensive operating instructions and safety guide for the POWERTEC PTi4500 4500W Digital Inverter Generator, covering specifications, intended use, safety precautions, maintenance, troubleshooting, and warranty information.</p>
	<p>Powertec Workbench Levergym WB-LS14 Assembly Manual - Step-by-Step Guide</p> <p>Comprehensive assembly manual for the Powertec Workbench Levergym WB-LS14. Includes parts list, detailed step-by-step instructions, safety precautions, and maintenance tips.</p>
	<p>POWERTEC PT3300Ei 3300W Digital Inverter Generator Operating Instructions</p> <p>Comprehensive operating instructions for the POWERTEC PT3300Ei 3300W Digital Inverter Generator. Learn about safety rules, assembly, operation, maintenance, troubleshooting, and specifications.</p>
	<p>POWERTEC 6-1/2" Universal Router Plate Instruction Sheet</p> <p>Instruction sheet for the POWERTEC 6-1/2" Universal Router Plate, including assembly, intended use, maintenance, and compatibility with various router models.</p>

