



Installation & Usage Guide

Ducting Variable Flap Y Branch (60mm) with Bowden Cable

What this product does

This Y-branch flap valve is designed to **control and balance airflow** between two ducting outlets.

- Turning the control knob moves an **internal flap**
 - This flap **diverts airflow** between the two branches
 - It is designed for **light adjustment only**, not forceful operation
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Important – Cause of Failure

We have seen cases where the internal plastic flap has snapped. This is **not a manufacturing fault**, but is typically caused by one or more of the following:

Common causes of damage

- **Cable fitted under tension (pre-loaded)**
→ This forces the flap against its stop before use
- **Over-rotating the control knob**
→ The flap has limited movement — forcing beyond this will break it
- **Stiff or poorly routed cable**
→ Causes resistance, leading to excessive force being applied
- **Adjusting under high airflow**
→ Air pressure makes the flap harder to move, increasing stress
- **Forcing the control when it feels tight**
→ This is the main reason for snapping the internal flap

✓ Correct Installation Instructions

1. Install the Y-piece

- Fit inline with 60mm ducting
 - Ensure:
 - No twisting or strain on the unit
 - It is properly supported (not hanging on ducting)
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2. Route the Bowden cable

- Run the cable with:
 - **Smooth curves only (no sharp bends)**
 - No kinks or crushing
 - Keep routing as straight and free as possible
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3. Set positions **BEFORE** connecting cable (CRITICAL STEP)

This is the most important part of the installation.

- Manually move the flap to the **middle position**
- Set the control knob to the **middle position**
- Then connect and secure the cable

👉 This ensures there is **no tension or preload** on the flap

4. Secure the cable correctly

- Tighten the fixing point just enough to hold it in place
 - Do NOT overtighten or pull the cable tight
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5. Test movement (before using heater)

- Turn the control knob slowly:
 - Movement should feel **smooth and light**
- If it feels stiff or tight:
 - STOP and check installation

👉 The control should never require force

⚠️ Correct Usage Guidelines

- Only use for **adjusting airflow**, not fully shutting it off under force
 - Do NOT force the knob once resistance is felt
 - Adjust airflow:
 - Preferably when heater is **off or on low setting**
 - If control becomes stiff:
 - Do NOT continue — investigate the cause
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● Key Warning

If the control knob feels stiff or reaches a stop, **do not apply additional force**. This will cause the internal flap to snap.

🧠 Summary

These valves are designed for **light-duty airflow control**. When installed and used correctly, they work reliably. However, if the cable is misadjusted or the control is forced, the internal flap can be damaged.