

Balance Zone

THE FIRST ZONE VALVE TO INCLUDE BALANCING



Recommended Applications:

- Where actuated valves and balancing valves are used to control the flow
- For VAV boxes, fan coil units and terminal boxes
- Where space is tight

Absolute Control. **Optimized Efficiency.**

BALANCE ZONE Combination Flow Limiting and Control Valve

The Balance Zone valve is designed to give the optimal indoor comfort. The valves will provide ON/OFF or modulating temperature control and self balancing flow control for use with fan coil units, in-cabinet baseboard heating or chilled beam systems.

The Balance Zone valve combines an electrically actuated control valve in series with an automatic flow limiting cartridge.

The Balance Zone valve is designed for use in connection with the valve bodies FlowCon A or AB.

Close-off/Torque

Unlike a traditional zone valve, the 58 PSID close-off pressure of Griswold Controls' Balance Zone Combination Control Valve means that you can install the valve in most applications including higher PSID applications that aren't compatible with traditional zone valves. This high close-off is achieved with a low-torque compact actuator.

Features and Benefits

- Automatic balancing, the correct flow rate for each circuit is achieved automatically.
- Dynamic balancing, the correct flow rate is maintained as each valve compensates for pressure fluctuations in the system.
- Actuator selection, ON/OFF or modulating, normally closed.
- Easily accessible cartridge for flow rate adjustment or maintenance.
- Pressure/temperature measurement plugs for verifying operating pressure differential range or checking ΔT across the coil (not available on FlowCon A-bodies).
- The compact size, while still incorporating our flow limiting cartridge, makes it the perfect zone valve.

BALANCE ZONE		
Static pressure	psi	360
Temperature rating (media/ambient)	°F	-4 to +248 / +36 to +122
Pressure drop data	Note: for pump head calculations, add the minimum pressure differential for the index circuit to the other components pressure losses (i.e., valves, coils, etc.)	
Pressure differential	psid	1-14, 2-32, or 4-57
Flow rate	GPM	.33 to 10.0

For further information please see the installation and operation instruction manual.

Flow Limit

Additional Flow Openings:

Can be added to achieve desired flow level at coil

Precision Cut:

Cut by a computer-guided laser beam for 100% consistency



Parabolic Engineered Passage Profile:

Proven to reliably produce a smooth flow curve

Stainless Steel Spring:

Will not erode or rust over years of service.

Stainless Steel Design:

Resists corrosion and is the industry standard material. Griswold Controls has always used stainless steel in their cartridges

The Griswold Controls Flow Limiting Cartridge

	<p>Desired Flow</p> <p>← PSID Control Range →</p>	
Cup Fully Out	Cup Partially Out	Cup Fully In
Below the control range, the cartridge acts as a variable flow device allowing flow to fluctuate below the rated amount.	Within the wide control range, the cartridge modulates in response to pressure differential changes to maintain a fixed flow rate within $\pm 5\%$ accuracy.	Above the control range, the cartridge acts as a variable flow device, allowing flow to fluctuate above the rated amount.



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