

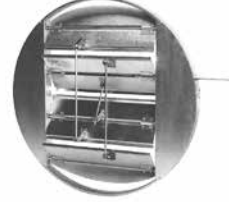




Volume Control Dampers

for Round, Flat Oval, and Rectangular Duct Systems







Volume control dampers are designed for two primary functions: two position (open/closed) or proportional (modulating). McGill AirFlow has developed a complete line of volume control dampers that meet a variety of applications. These standard designs are available for “quick ship” programs of two weeks or less. Also, we can design volume control dampers to meet your specific requirements.

Round and Flat Oval Volume Control Dampers

Volume Control Damper	Description	Specification Data
<p>VC22 and VC22H (round)</p> <p>VC22HO (flat oval)</p> 	<p>The VC22 volume control damper is designed for all types of round duct applications such as variable air volume systems, etc. It is available in 6- through 18-inch diameters. The VC22H is available in 6- through 48-inch diameters. The VC22HO is flat oval and available in single-wall, and double-wall constructions. All models are available in galvanized steel and stainless steel.</p>	<p>Maximum Face Velocity 3000 fpm</p> <p>Maximum Differential Pressure VC22: 2-inch wg VC22H: 4-inch wg</p> <p>Maximum Temperature 180°F (w/o seals) 150°F (w/seals)</p>
<p>VC23</p> 	<p>Designed for volume control and/or shut-off use in round ducts from 12- through 28-inch diameters, the VC23 comes with two opposed blades and covers a range of sizes larger than those available in the VC22. It can also be used in applications where limitations in the depth of the space envelope preclude the use of single blade dampers. For diameters exceeding 28 inches, see the model VC24. It is available in galvanized steel and stainless steel.</p>	<p>Maximum Face Velocity 3000 fpm</p> <p>Maximum Differential Pressure 2-inch wg</p> <p>Maximum Temperature 180°F (w/o seals) 150°F (w/seals) (special design to 450°F)</p>
<p>VC24P (parallel blade)</p> <p>VC24O (opposed blade)</p> 	<p>Designed for two position or proportional control of low-pressure, low-velocity applications where a round damper is required that exceeds the maximum size limitations of the VC22 or VC23. The VC24P parallel blade is recommended for constant pressure drop applications such as fresh and return air dampers. The VC24O opposed blade is designed for varying pressure drop applications. Available in sizes of 24- through 50-inch diameters. All models are available in galvanized steel and stainless steel.</p>	<p>Maximum Face Velocity 3000 fpm</p> <p>Maximum Differential Pressure 2-inch wg</p> <p>Maximum Temperature 180°F (w/o seals) 150°F (w/seals)</p>
<p>VC25, VC25D, VC25H, and VC25HD (round)</p> <p>VC25HO and VC25HDO (flat oval)</p> 	<p>The VC25 is designed for all types of low-leakage, round duct applications. It is available in 4- through 24-inch diameters. For diameters exceeding 24 inches, contact McGill AirFlow. The VC25H is available in 6- through 48-inch diameters. The VC25D and VC25HD are available in double-wall constructions. The VC25HO and VC25HDO are flat oval and available in single-wall, and double-wall constructions. All models are available in galvanized steel and stainless steel.</p>	<p>Maximum Face Velocity 3000 fpm</p> <p>Maximum Differential Pressure VC25 and VC25D: 6-inch wg VC25H and VC25HD: 4-inch wg</p> <p>Maximum Temperature 180°F (w/o seals) 150°F (w/seals)</p>
<p>VC561, VC562, and VC563</p> 	<p>The VC560 Series is designed for all types of round duct applications ranging from 3- through 72-inch diameters. These dampers are available in a variety of materials and optional features suitable for most service conditions. The VC560 Series is designed to operate at pressures up to 30-inch wg, velocities to 6,400 fpm, and temperatures to 250°F without seals and 150°F with seals. A full range of optional actuation systems are available in either electric or pneumatic operation. All models are available in cold-rolled steel and stainless steel.</p>	<p>Maximum Face Velocity VC561: 3900 fpm VC562: 5150 fpm VC563: 6400 fpm</p> <p>Maximum Differential Pressure VC561: 5-inch wg VC562: 8.5-inch wg VC563: 13.5-inch wg</p> <p>Maximum Temperature 250°F (w/o seals) 150°F (w/seals)</p>

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Rectangular Volume Control Dampers		
Volume Control Damper	Description	Specification Data
VC1 and VC2 	<p>The VC1 parallel blade damper is recommended for constant pressure drop applications such as mixing air, multi-zone, face and by-pass, as well as normal open/ closed applications. The VC2 opposed blade damper is recommended for varying pressure drop applications such as volume control.</p> <p>VC1 and VC2 dampers are designed for in duct mounting. The single thickness, roll formed blades and roll formed frame are capable of withstanding differential pressures of 4-inch wg and 2,000 fpm at its maximum panel width (for higher pressures and velocities, contact McGill AirFlow). All models are available in galvanized steel and stainless steel.</p>	<p>Maximum Face Velocity 2000 fpm</p> <p>Maximum Differential Pressure 4-inch wg</p> <p>Maximum Temperature 200°F (w/o seals) 150°F w/seals)</p>
VC20 and VC21 	<p>These dampers are used as an alternate selection to Models VC1 and VC2 when heavier gauges, larger axles, or different alloys are required. Unlike roll formed products, blade widths can vary, maximizing free area and lowering pressure drop. These models allow flexibility to change frame styles and depths for different mounting applications. Corrosive or spark resistant applications are common uses for these models. All models are available in galvanized steel and stainless steel.</p>	<p>Maximum Face Velocity 3000 fpm</p> <p>Maximum Differential Pressure 2-inch wg</p> <p>Maximum Temperature 200°F (w/o seals) 150°F (w/seals)</p>
VC26 and VC27 	<p>These dampers are designed for in duct mounting. The airfoil, roll formed blades, and roll formed frame are capable of withstanding differential pressures of 6-inch wg and velocities up to 4,000 fpm at its maximum panel width (for higher pressures and velocities, contact McGill AirFlow). All models are available in galvanized steel and stainless steel.</p>	<p>Maximum Face Velocity 4000 fpm</p> <p>Maximum Differential Pressure 6-inch wg</p> <p>Maximum Temperature 150°F</p>
VC30 and VC31 	<p>These dampers are used as an alternate selection to the VC26 and VC27 when heavier gauges, larger axles, or different alloys are required. Unlike roll formed products, blade widths can vary, maximizing free area and lowering pressure drop.</p> <p>These models allow the flexibility to change frame styles and depths for different mounting applications. Corrosive or spark resistant applications are common uses for these models. All models are available in galvanized steel and stainless steel.</p>	<p>Maximum Face Velocity 3000 fpm</p> <p>Maximum Differential Pressure 4-inch wg</p> <p>Maximum Temperature 200°F (w/o seals) 150°F (w/seals)</p>
Balancing Dampers		
VC9 and VC9W 	<p>The VC9 and VC9W round dampers are designed for duct applications with low velocity, low-pressure clean air systems. They were developed specifically for use in branch ducts to balance airflow. Both are available in 4- through 24-inch diameters in galvanized steel and stainless steel.</p>	<p>Maximum Face Velocity 1500 fpm</p> <p>Maximum Differential Pressure 2-inch wg</p> <p>Maximum Temperature 180°F</p>
VC8 	<p>The VC8 rectangular damper is designed for low velocity, low-pressure clean air systems. It was developed specifically for use in branch ducts to balance airflow. It is available in galvanized steel and stainless steel.</p>	<p>Maximum Face Velocity 1500 fpm</p> <p>Maximum Differential Pressure 2-inch wg</p> <p>Maximum Temperature 250°F</p>
Additional Information Construction details, dimension drawings, and standard gauges for McGill AirFlow products are available. Please contact the McGill AirFlow sales representative, sales engineering office, or regional manufacturing plant nearest you or see our web site for additional information.		<p>McGill AirFlow LLC An enterprise of United McGill Corporation — Family owned and operated since 1951 One Mission Park, Groveport, Ohio 43125 614/829-1200, Fax: 614/829-1291 E-mail: marketing@mcgillairflow.com Web site: mcgillairflow.com</p>