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Ruskin® Quick Product Selection Tables:

Commercial Dampers

The Quick Product Selection Reference Guide assists in selecting the appropriate Ruskin® Product for your application.

- Aluminum Airfoil Blades
- Galvanized Steel Airfoil Blades
- Galvanized Steel V-Groove Blades
- V Groove & Single Blades
- Single Blades
- Stainless Steel V-Groove Blades
- Automatic Balancing Dampers
- Backdraft Dampers

MENU

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Commercial Control Dampers > Aluminum Airfoil Blades

Damper Model	Description	Damper Section Widths* In. (mm)	Max. System Pressure (in. w.g.)	Max. System Velocity (FPM)	Leakage (CFM/sq. ft.) @ 1 in. w.g.	Temperature Range °F (°C)	R value (per ASTM C1363-2011)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
CD50	Extruded aluminum airfoil blade damper	60″ (1524)	3.50	3000	2.5	-72°F to 275°F -58°C to 135°C)	1.16 (hr˙ft²˙°F/BTU)	Class 1A Leakage				
		48″ (1219)	6.20	4000	2.7							
		36″ (914)	8.50	4000	3.0							
		24″ (610)	10.75	5000	3.0							
		12″ (305)	13.00	6000	3.0							
CD50V	Extruded aluminum vertical airfoil blade damper, Class 2 leakage	48" (1219)	6.20	4000	7.2	-72°F to 275°F -58°C to 135°C)	1.16 (hr˙ft²˙°F/BTU)	-			-	
		36" (914)	8.50	4000	7.2							
		24" (610)	10.75	5000	10.0							
		12" (305)	13.00	6000	10.0							
CD40	Extruded Aauminum airfoil blade damper, Class 1 leakage	60″ (1524)	3.0	3000	2.5	-72°F to +275°F (-58°C to +135°C)	1.06 (hr˙ft²˙°F/BTU)	-				
		48″ (1219)	6.0	4000	2.7							
		36″ (991)	8.5	4000	3.5							
		24″ (610)	10.8	5000	3.5							
		12″ (305)	13.0	6000	5.0							
CD504	Extruded aluminum airfoil blade damper, Class 1 leakage	60″ (1524)	3.50	3000	2.5	-72°F to 275°F -58°C to 135°C)	1.06 (hr˙ft²˙°F/BTU)	-				
		48″ (1219)	6.20	4000	2.7							
		36″ (914)	8.50	4000	3.0							
		24″ (610)	10.75	5000	3.0							
		12″ (305)	13.00	6000	3.0							
CD403	Extruded aluminum, airfoil blade damper, Class 1 leakage, linear control	48″ (1219)	6.0	3000	2.75	-72°F to 275°F -58°C to 135°C)	N/A	-				
		36″ (991)	8.5	3000	3.0							
		24″ (610)	10	4000	3.0							
		12" (305)	13.00	6000	3.0							
CD40X2	Extruded aluminum dual airfoil blade damper, Class 1 leakage	60" (1524)	3.0	3000	2.5	-72°F to +275°F (-58°C to +135°C)	3.33 (hr˙ft²˙°F/BTU)	-				
		48" (1219)	6.0	4000	2.7							
		36" (914)	9.0	4000	3.2							
		24" (610)	11.0	5000	3.5							
		12" (305)	13.0	6000	5.0							

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Commercial Control Dampers > Aluminum Airfoil Blades

Damper Model	Description	Damper Section Widths* In. (mm)	Max. System Pressure (in. w.g.)	Max. System Velocity (FPM)	Leakage (CFM/sq. ft.) @ 1 in. w.g.	Temperature Range °F (°C)	R value (per ASTM C1363-2011)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
TED50	Extruded aluminum, thermally efficient insulated airfoil blade damper	60" (1524)	6.00	3000	3.0	-45°F to 185°F (-43°C to 85°C)	2.16 (hr·ft²·°F/BTU)	Class 1A Leakage			-	
		48" (1219)	8.50	4000	3.0							
		36" (914)	11.00	4000	3.0							
TED50XT	Extruded aluminum, thermally efficient Insulated airfoil blade damper	60" (1524)	6.00	3000	3.0	-70°F to 200°F (-57°C to 93°C)	2.16 (hr·ft²·°F/BTU)	Class 1A Leakage		-	-	
		48" (1219)	8.50	4000	3.0							
		36" (914)	11.00	4000	3.0							
TED40	Extruded aluminum insulated airfoil blade damper, Class 1 leakage	60" (1524)	3.0	3000	2.5	-70°F to +185°F (-57°C to +85°C)	1.06 (hr·ft²·°F/BTU)	-			-	
		48" (1219)	6.0	4000	2.7							
		36" (991)	8.5	4000	3.5							
		24" (610)	10.8	5000	3.5							
		12" (305)	13.0	6000	5.0							
TED40X2	Extruded aluminum dual insulated airfoil blade damper, Class 1 leakage	60" (1524)	3.0	3000	2.5	-70°F to +185°F (-57°C to +85°C)	3.33 (hr·ft²·°F/BTU)	-			-	
		48" (1219)	6.0	4000	2.7							
		36" (914)	9.0	4000	3.2							
		24" (610)	11.0	5000	3.5							
		12" (305)	13.0	6000	5.0							
CD50DC	Extruded aluminum airfoil blade damper, (Data Center)	60" (1524)	3.50	3000	2.5	-72°F to +275°F (-58°C to +135°C)	1.16 (hr·ft²·°F/BTU)	Class 1A Leakage				
		48" (1219)	6.20	4000	2.7							
		36" (914)	8.50	4000	3.0							
		24" (610)	10.75	5000	3.0							
		12" (305)	13.00	6000	3.0							
TED50DC	Extruded aluminum thermally efficient, insulated airfoil blade damper, (Data Center)	60" (1524)	6.00	3000	3.0	-45°F to +185°F (-43°C to +85°C)	2.16 (hr·ft²·°F/BTU)	Class 1A Leakage			-	
		48" (1219)	8.50	4000	3.0							
		36" (914)	11.00	4000	3.0							

Note: Tested per ASTM C1363-2011.

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Commercial Control Dampers > Aluminum Airfoil Blades

Damper Model	Description	Damper Section Widths* In. (mm)	Max. System Pressure (in. w.g.)	Max. System Velocity (FPM)	Leakage (CFM/sq. ft.) @ 1 in. w.g.	Temperature Range °F (°C)	R value (per ASTM C1363-2011)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
CD50IF	Extruded aluminum airfoil blade damper with integral flange	60″ (1524)	3.5	3000	2.5	-72°F to 275°F (-58°C - 135°C)	1.16 (hr˙ft²˙°F/BTU)	Class 1A Leakage			-	
		48″ (1219)	6.2	4000	2.7							
		36″ (914)	8.5	4000	3.0							
		24″ (610)	10.8	5000	3.0							
		12″ (305)	13.0	6000	3.0							
CD50CE	Extruded aluminum airfoil blade damper (critical environment)	60″ (1524)	3.50	3000	2.5	-72°F to 275°F (-58°C - 135°C)	1.16 (hr˙ft²˙°F/BTU)	Class 1A Leakage			-	
		48″ (1219)	6.20	4000	2.7							
		36″ (914)	8.50	4000	3.0							
		24″ (610)	10.75	5000	3.0							
		12″ (305)	13.00	6000	3.0							
TED50CE	Extruded aluminum, thermally efficient, insulated blade damper (critical environment)	60" (1524)	6.00	3000	3.0	-45°F to 185°F (-43°C to 85°C)	2.16 (hr˙ft²˙°F/BTU)	Class 1A Leakage			-	
		48" (1219)	8.50	4000	3.0							
		36" (914)	11.00	4000	3.0							
TED50V	Extruded aluminum, thermally efficient, insulated vertical airfoil blade damper Class 1A leakage	48″ (1219)	8	4000	4.0	-45°F to 185°F (-43°C to 85°C)	2.16 (hr˙ft²˙°F/BTU)	-			-	
		36″ (914)	11	6000	4.0							
TED50VXT	Extruded aluminum, thermally efficient, vertical insulated airfoil blade damper Class 1A leakage	36" (914)	11.00	4000	4.0	-70°F to 200°F (-57°C to 93°C)	2.16 (hr˙ft²˙°F/BTU)	-			-	
		48″ (1219)	8	6000	4.0							
ZMD60	Extruded aluminum airfoil blade zone mixing damper	30" (762)	9.50	4000	5.0	-72°F to 275°F (-58°C to 135°C)	-	–		-		
		24" (610)	10.50	4000	5.0							
		12" (305)	13.00	5000	5.0							

Note: Tested per ASTM C1363-2011.

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Commercial Control Dampers > Aluminum Airfoil Blades

Damper Model	Description	Damper Section Widths* In. (mm)	Max. System Pressure (in. w.g.)	Max. System Velocity (FPM)	Leakage (CFM/sq. ft.) @ 1 in. w.g.	Temperature Range °F (°C)	R value (per ASTM C1363-2011)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
CD50GS	Extruded aluminum airfoil blade damper (Genset)	60" (1524)	3.50	3000	2.5	-72°F to 275°F -58°C to 135°C)	1.16 (hr·ft²·°F/BTU)	Class 1A Leakage				
		48" (1219)	6.20	4000	2.7							
		36" (914)	8.50	4000	3.0							
		24" (610)	10.75	5000	3.0							
		12" (305)	13.00	6000	3.0							
TED50GS	Extruded Aauminum thermally effient, insulated airfoil blade damper, (Genset)	60" (1524)	6.00	3000	3.0	-45°F to +185°F (-43°C to +85°C)	2.16 (hr·ft²·°F/BTU)	Class 1A Leakage				
		48" (1219)	8.50	4000	3.0							
		36" (914)	11.00	4000	3.0							

Commercial Control Dampers > Steel Airfoil Blades

Damper Model	Description	Damper Section Widths* In. (mm)	Max. System Pressure (in. w.g.)	Max. System Velocity (FPM)	Leakage (CFM/sq. ft.) @ 1 in. w.g.	Temperature Range °F (°C)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
CD60	Galvanized steel airfoil blade damper	60" (1524)	3.50	3000	2.0	-72°F to 275°F (-58°C to 135°C)	Class 1A Leakage				
		48" (1219)	6.20	4000	2.0						
		36" (914)	8.50	4000	2.0						
		24" (610)	10.75	5000	2.5						
		12" (305)	13.00	6000	3.0						
CD60SS	304 stainless steel, airfoil blade damper	48" (1219)	8	4000	2.0	-72°F to 275°F (-58°C to 135°C)	Class 1A Leakage			-	
		36" (914)	8.50	4000	2.0						
		24" (610)	10.75	4000	2.0						
		12" (305)	13.00	6000	2.7						

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Commercial Control Dampers > Steel Airfoil Blades

Damper Model	Description	Damper Section Widths* In. (mm)	Max. System Pressure (in. w.g.)	Max. System Velocity (FPM)	Leakage (CFM/sq. ft.) @ 1 in. w.g.	Temperature Range °F (°C)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
CD60CE	316 stainless steel, airfoil blade damper	48" (1219)	8	4000	2.0	-72°F to 275°F (-58°C to 135°C)	Class 1A Leakage			-	
		36" (914)	8.50	4000	2.0						
		24" (610)	10.75	4000	2.0						
		12" (305)	13.00	6000	2.7						
CD60V	Galvanized steel vertical airfoil blade damper Class 2 leakage	48" (1219)	6.20	4000	7.2	-72°F to 275°F (-58°C to 135°C)	-			DWG	ZIP
		36" (914)	8.50	4000	7.2						
		24" (610)	10.75	5000	10.0						
		12" (305)	13.00	6000	10.0						
CD60DC	Galvanized steel airfoil blade damper (data center)	60" (1524)	3.50	3000	2.0	-72°F to +275°F (-58°C to +135°C)	Class 1A Leakage			DWG	ZIP ZIP ZIP
		48" (1219)	6.20	4000	2.0						
		36" (914)	8.50	4000	2.0						
		24" (610)	10.75	5000	2.5						
		12" (305)	13.00	6000	3.0						
CD60GS	Galvanized steel airfoil blade damper (Genset)	60" (1524)	3.50	3000	2.0	-72°F to 275°F (-58°C to 135°C)	Class 1A Leakage			-	ZIP
		48" (1219)	6.20	4000	2.0						
		36" (914)	8.50	4000	2.0						
		24" (610)	10.75	5000	2.5						
		12" (305)	13.00	6000	3.0						

*Damper section widths vary depending on system pressure and velocity requirements. Multiple section dampers are available in unlimited sizes. Leakage information based on pressure differential of 1" w.g. tested per AMCA 500.

Note: Tested per ASTM C1363-2011.

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Commercial Control Dampers > V Groove Blades

Damper Model	Description	Damper Section Widths* In. (mm)	Max. System Pressure (in. w.g.)	Max. System Velocity (FPM)	Leakage (CFM/sq. ft.) @ 1 in. w.g.	Temperature Range °F (°C)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
CD36	Galvanized steel v-groove blade damper Class 2 leakage	48" (1219)	2.50	2000	5.4	-25°F to 185°F (-32°C to 85°C)	-				
		36" (914)	3.00	2500	5.3						
		24" (610)	4.00	3000	5.7						
		12" (305)	5.00	3000	7.0						
CD35	Galvanized steel v-groove blade damper	48" (1219)	2.50	1500	40.0	-40°F to 240°F (-40°C to 116°C)	-				
		36" (914)	3.00	1500	40.0						
		24" (610)	4.00	1500	50.0						
		12" (305)	5.00	1500	65.0						
CD356	Galvanized steel v-groove blade damper Class 2 leakage	48" (1219)	2.50	2000	5.4	-25°F to 185°F (-32°C to 85°C)	-			-	
		36" (914)	3.00	2500	5.3						
		24" (610)	4.00	3000	5.7						
		12" (305)	5.00	3000	7.0						
CD355	Galvanized steel v-groove blade damper	48" (1219)	2.50	1500	40.0	-40°F to 240°F (-40°C to 116°C)	-			-	
		36" (914)	3.00	1500	40.0						
		24" (610)	4.00	1500	50.0						
		12" (305)	5.00	1500	65.0						
IL35	Galvanized steel insulated v-groove blade damper	48" (1219)	4.0"	1500	5.4	-25°F to 180°F (-32°C to 83°C)	-				
		36" (914)	5.0"	1500	5.3						
		24" (610)	6.0"	1500	5.7						
		12" (305)	8.0"	1500	7.0						

Note: Tested per ASTM C1363-2011.

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RUSKIN
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Commercial Control Dampers > V Groove & Single Blades

Damper Model	Description	Damper Section Widths* In. (mm)	Max. System Pressure (in. w.g.)	Max. System Velocity (FPM)	Leakage (CFM/sq. ft.) @ 1 in. w.g.	Temperature Range °F (°C)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
CD51	Extruded Aluminum flat blade damper Class 1 leakage	48" (1219)	2.00	2000	3.2	-50°F to 250°F (-46°C to 121°C)	-				
		36" (914)	3.00	2000	1.6						
		24" (610)	4.00	2000	2.2						
		12" (305)	5.00	2000	3.2						
MD35	Galvanized Steel, v-groove blade manual balancing damper	48" (1219)	2.50	2000	N/A	-40°F to 240°F (-40°C to 116°C)	-				
		36" (991)	3.00	1500							
		24" (610)	4.00	1500							
		12" (305)	5.00	1500							
MD25	Galvanized steel single blade manual balancing damper	36" (914)	2.00	1500	N/A	-50°F to 250°F	-				
MDRS25	Round single blade manual balancing damper	20" (508)	2.00	1500	N/A	-50°F to 250°F	-				
CDO25	Oval Galvanized Steel single blade damper	40" (1016)	4.00	2500	9.4 Total 150 Total	-50°F to 250°F (-46°C to 121°C)	-				
		36" (914)	4.00	2500	8.5 Total 125 Total						
CDR25	Round galvanized steel single blade damper	24" (610)	6.00	2500	5.7 Total 85 Total	-50°F to 250°F (-46°C to 121°C)	-				
		12" (305)	8.00	2500	2.8 Total 50 Total						
		6" (152)	10.00	4000	1.4 Total 30 Total						
CDRS25	Round galvanized steel single blade damper Class 1A leakage	24" (610)	6.00	4000	5.7 Total	-20°F to 158°F (-29°C to 70°C)	-				
		18" (457)	6.00	4000	4.2 Total						
		12" (305)	8.00	4000	2.8 Total						
		6" (152)	10.00	4000	1.4 Total						

MENU

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Commercial Control Dampers > Single Blades

Damper Model	Description	Damper Section Widths* In. (mm)	Max. System Pressure (in. w.g.)	Max. System Velocity (FPM)	Leakage (CFM/sq. ft.) @ 1 in. w.g.	Temperature Range °F (°C)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
CDRS15	Round galvanized steel single blade damper	24" (610)	2.00	1000	10	-20°F to 158°F (-29°C to 70°C)	-			-	
		4" (102)	10.00	3000	20						
WMRS25	Round galvanized steel single blade manual balancing damper	40" (1016)	2.00	1500	-	-25°F to 250°F (-32°C to 121°C)	-		-	-	
		4" (102)	2.00	1500	-						
PVC12	PVC frame, blade and axle	16" (406)	4.00	4000	-	73°F to 180°F (-32°C to 83°C)	-			DWG	
		6" (152)	4.00	4000	-						

*Damper section widths vary depending on system pressure and velocity requirements. Multiple section dampers are available in unlimited sizes. Leakage information based on pressure differential of 1" w.g. tested per AMCA 500.

**For optimum sound characteristics and pressure drop performance on dampers with v-groove blades, we recommend sizing dampers for 2000 fpm (10.2 m/s).

Higher velocities are not recommended for outside air openings, due to water penetration concerns. For best pressure drop and sound performance at higher velocities, consider an airfoil blade damper, such as Ruskin model CD60.

For up-to-date information visit www.ruskin.com

Note: Tested per ASTM C1363-2011.

MENU

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Commercial Control Dampers > V-groove Stainless steel

Damper Model	Description	Damper Section Widths* In. (mm)	Max. System Pressure (in. w.g.)	Max. System Velocity (FPM)	Leakage (CFM/sq. ft.) @ 1 in. w.g.	Temperature Range °F (°C)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
CD36CE	316 stainless steel, v-groove blade damper Class 2 leakage (critical environment)	48" (1219)	2.50	2000	5.4	-72°F (-58°C) minimum & +275°F (+135°C) maximum	-		-	-	
		36" (914)	3.00	2500	5.3						
		24" (610)	4.00	3000	5.7						
		12" (305)	5.00	3000	7.0						

Note: Tested per ASTM C1363-2011.

Commercial Control Dampers > Automatic Balancing Dampers

Damper Model	Description	Damper Diameter*	Pressure Operating Range	Set Points	Airflow Range (CFM)**	Temperature Range °F (°C)	AMCA Rated	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
ABD	Automatic balancing damper	4" (102)	0.2" WC (50 Pa) to 2.0" WC (498 Pa)	20	20 to 130	25°F (-4°C) to 150°F (65°C)	-			-	
		5" (127)		20	20 to 130						
		6" (152)		24	50 to 275						
ABD-SEA	Automatic balancing damper with exhaust or supply grille	4" (102)	0.2" WC (50 Pa) to 2.0" WC (498 Pa)	20	30 to 125 CFM	25°F (-4°C) to 150°F (65°C)	-			-	
		6" (152)		24	60 to 240 CFM						
ABD-SEA-E	Automatic balancing damper with exhaust or supply grille	4" (102)	0.2" WC (50 Pa) to 2.0" WC (498 Pa)	20	20 to 130	25°F (-4°C) to 150°F (65°C)	-			-	
		5" (127)		20	20 to 130						
		6" (152)		24	50 to 275						
ABD-SEA-ST	Automatic balancing damper with exhaust or supply grille & side tap	4" (102)	0.2" WC (50 Pa) to 2.0" WC (498 Pa)	20	20 to 130	25°F (-4°C) to 150°F (65°C)	-			-	
		5" (127)		20	20 to 130						
		6" (152)		24	50 to 275						
ABD-FD	Automatic balancing damper and curtain fire damper assembly	4" (102)	0.2" WC (50 Pa) to 2.0" WC (498 Pa)	20	20 to 130	25°F (-4°C) to 150°F (65°C)	-			-	
		5" (127)		20	20 to 130						
		6" (152)		24	50 to 275						

Note: Tested per ASTM C1363-2011.

MENU

RUSKIN
AUTHORITY IN AIR CONTROL

Commercial Control Dampers > Backdraft Dampers (Aluminum Counterbalanced)

Damper Model	Description	Damper Widths* In. (mm)	Max. Back Pressure (External Wind Velocity.)	Max. System Velocity (FPM)	Leakage*		Temperature Range °F (°C)	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
					% of max. flow	CFM/sq.ft.					
CBD2	Counterbalanced backdraft relief damper	40" (1016)	55 mph/1.5" w.g.	1000	1.5	15.0	-40°F (-40°C) +200°F (93°C)				
		36" (914)	70 mph/2.5"	1000	1.5	15.0					
		24" (610)	85 mph/3.5"	1000	2.0	20.0					
		12" (305)	95 mph/4.5"	1000	4.0	40.0					

Damper Model	Description	Damper Widths* In. (mm)	Max. Back Pressure (External Wind Velocity.)	Max. System Velocity (FPM)	Leakage*		Temperature Range °F (°C)	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
					% of max. flow	CFM/sq.ft.					
CBD4	Counterbalanced backdraft relief damper	48" (1219)	4.0" w.g.	2500	0.7%	17.5	-40°F (-40°C) minimum and +200°F (93°C maximum				
		36" (914)	8.0" w.g.	2500	0.8%	20					
		24" (610)	12.0" w.g.	2500	0.9%	23					
		12" (305)	16.0" w.g.	2500	1.6%	40					
CBD6	Counterbalanced backdraft relief damper	48" (1219)	4.0" w.g.	2500	0.6%	15	-40°F (-40°C) minimum and +200°F (93°C) maximum				
		36" (914)	8.0" w.g.	2500	0.6%	15					
		24" (610)	12.0" w.g.	2500	0.7%	17.5					
		12" (305)	16.0" w.g.	2500	1%	25					

MENU

RUSKIN
AUTHORITY IN AIR CONTROL

Commercial Control Dampers > Backdraft Dampers (Aluminum Gravity)

Damper Model	Description	Damper Widths* In. (mm)	Max. Back Pressure in. w.g./(kPa)	Temperature Range °F (°C)	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
BD2A2	Gravity backdraft damper	40" (1016)	3" w.g. (.75)	-40°F to +200°F (-40°C to 93°C)				
		36" (914)	4" w.g. (1.0)					
		24" (610)	5" w.g. (1.2)					
		12" (305)	6" w.g. (1.5)					
BD6	Gravity backdraft damper	48" (1219)	4" w.g. (1.0)	-40°F to +200°F (-40°C to 93°C)				
		36" (914)	8" w.g. (2.0)					
		24" (610)	12" w.g. (3.0)					
		12" (305)	16" w.g. (4.0)					

Commercial Control Dampers > Backdraft Dampers (Fabric)

Damper Model	Description	Damper Height B	C	Maximum Velocities	Temperature Range °F (°C)	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
NMS2	Non-Metallic backdraft damper	4" (102) through 12" (25)	2" (51)	System- 1000fpm Spot- 1200fpm	-30°F (34°C) minimum and +200°F (93°C) maximum				
		Over 12" (25) through 20" (508)	3" (76)						
		Over 20" (508) through 24" (610)	4" (102)						

MENU

RUSKIN
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Commercial Control Dampers > Backdraft Dampers (Steel)

Damper Model	Description	Diameter (D*)	"L"	Maximum System Pressure	Maximum Velocity (FPM)	Static Pressure	Leakage* in CFM/sq.ft.	Temperature Range °F (°C)	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
BDR2	Round backdraft and pressure relief damper	6" (152) through 9" (229)	6" (152)	2" w.g. (0.49 KPA)	2000	1.0 1.5 2.0 2.5 3.0	8.7 11.0 10.6 11.6 13.0	-40°F (-40°C) to 180°F (80°C)			-	
		Over 9" (229) through 16" (406)	10" (254)									
		Over 16" (406) through 24" (610)	14" (356)									

Damper Model	Description	Damper Widths* In. (mm)	Max. Back Pressure In. w.g. (kPa)	Max. System Velocity (FPM) (m/s) Rear Linkage	Max. System Velocity (FPM) (m/s) Front Linkage	Leakage*		Temperature Range °F (°C)	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
						% of max. flow	CFM/sq.ft.					
S2SS	Stainless steel backdraft damper	36" (914)	3.0" (0.75)	1000 (5.1)	3000 (15.2)	1.07	32.0 (162)	-40°F (-40°C) to 180°F (80°C)				
		24" (610)	3.5" (0.88)	1000 (5.1)	3000 (15.2)	1.07	32.0 (162)					
		12" (305)	4.0" (1.0)	1000 (5.1)	3000 (15.2)	2.00	60.0 (304)					

Damper Model	Description	Damper Widths* In. (mm)	Max. System Pressure In. w.g. (kPa)	Max. System Velocity FPM (m/s)	Leakage*		Temperature Range °F (°C)	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
					% of max. flow	CFM/sq.ft.					
S3G	Galvanized steel backdraft damper	42" (1067)	3.0" (0.75)	1500 (17.6)	1.0	15 (76)	-40°F (-40°C) to 180°F (80°C)				
		36" (914)	4.0" (1.0)	3000 (15.2)	0.5	15 (76)					
		24" (610)	5.0" (1.25)	3000 (15.2)	0.6	17.5 (89)					
		12" (305)	6.0" (1.5)	3000 (15.2)	0.13	40 (202)					

Damper Model	Description	Humidity	Static Pressure	Temperature Range °F (°C)	Submittal	CSI 3-Part Spec	CAD Install Drawing	3D Revit® Files
ZBBD25	Barometric bypass damper	5% to 95% Non-condensing	From .02" to 0.75" W.C. (5 to 187 Pa)	0˚F to 180˚F (-18˚C to 82˚C) Opening		-	-	