

1-800-GRAINGER (472-4643)

Fire Dampers

- UL, NFPA, IBC, MEA, CSFM
- Accommodate airflow in either direction
- Fire-resistance rating: 1 1/2 hr.
- Max. temp.: 165°F
- Curtain blade style (square & rectangular); single-blade (round)
- NFPA 80 requires retaining angles

These dampers eliminate the spread of fire through HVAC systems.

Dynamic

- Steel spring-assist closing
- Velocity rating: 2,000 fpm
- Pressure rating: 4" wg

Close in the event of a fire, even if the HVAC system is operating.

Static

Close in the event of a fire but cannot overcome the blower airflow. For zero-pressure during damper closing. Vertical-mount models close via gravity. Horizontal mount have spring-assist closing.



Overall H X W (in)	DYNAMIC, VERT. OR HORIZ. MOUNT Item No.	STATIC, VERT. MOUNT Item No.	STATIC, HORIZ. MOUNT Item No.	RECOMMENDED RETAINING ANGLE Item No.
Square and Rectangular, 3 3/4 in Length				
5 3/4 x 5 3/4	2TGE6	2TGA1	2TGC8	2TGG4
5 3/4 x 9 3/4	2TGE8	2TGA3	2TGD1	2TGG6
5 3/4 x 11 3/4	2TGF1	2TGA5	2TGD3	2TGG8
7 3/4 x 7 3/4	2TGE7	2TGA2	2TGD9	2TGG5
7 3/4 x 11 3/4	2TGF2	2TGA6	2TGD4	2TGG9
7 3/4 x 15 3/4	2TGF7	2TGC2	2TGD9	2TGH5
9 3/4 x 9 3/4	2TGE9	2TGA4	2TGD2	2TGG7
9 3/4 x 11 3/4	2TGF3	2TGA7	2TGD5	2TGH1
11 3/4 x 11 3/4	2TGF4	2TGA8	2TGD6	2TGH2
11 3/4 x 13 3/4	2TGF5	2TGA9	2TGD7	2TGH3
11 3/4 x 15 3/4	2TGF6	2TGC3	2TGE1	2TGH6
13 3/4 x 13 3/4	2TGF2	2TGC5	2TGE4	2TGH9
13 3/4 x 15 3/4	2TGF6	2TGC1	2TGD8	2TGH4
13 3/4 x 15 3/4	2TGF9	2TGC4	2TGE2	2TGH7
13 3/4 x 17 3/4	2TGG1	2TGC5	2TGE3	2TGH8
23 3/4 x 23 3/4	2TGG3	2TGC7	2TGE5	2TGH1

Accessory
165°F Fusible Link for Square or Rectangular Dampers 2TGG2

Nom. Duct Dia. (in)	DYNAMIC, VERTICAL OR HORIZONTAL MOUNT Item No.
4	2TFZ4
6	2TFZ5
8	2TFZ6
10	2TFZ7
12	2TFZ8
14	2TFZ9

Accessory
165°F Fusible Link for Round 2TGG3



Square & Rectangular



Round

Motorized Smoke & Fire/Smoke Dampers

- UL, NFPA, IBC, MEA, CSFM
- Accommodate airflow in either direction
- Smoke leakage rating: Class II
- Single-blade (round); 3V blade (square)
- Velocity rating: 3000 fpm (round); 2000 fpm (square)
- Closure pressure rating: 4 in wc

Smoke dampers have a factory-installed actuator that forces damper blades to close in emergency smoke control situations. **Fire/Smoke** have a fusible link and electric actuator that automatically close the damper when power is lost or the temperature exceeds the trigger point in emergency fire and smoke situations. Factory-installed actuators are prewired to a single junction box. Fire-resistance rating: 1 1/2 hours



For Nom. Duct Dia. (in)	Overall Length (in)	24V DC Item No.	120V AC Item No.
Smoke, Round			
6	8 1/2	3HG2	3HG7
8	8 1/2	3HG3	3HG8
10	8 1/2	3HG4	3HG9
12	8 1/2	3HG5	3HG1
14	8 1/2	3HG6	3HG2



Round

For Nom. Duct Dia. (in)	Overall Length (in)	24V DC Item No.	120V AC Item No.
Fire/Smoke, Round†			
6	16	3HG6	3HGL4
8	16	3HG7	3HGL5
10	16	3HG8	3HGL6
12	16	3HG9	3HGL7
14	16	3HGL1	3HGL8
16	16	3HGL2	3HGL9
18	16	3HGL3	3HGN1



Smoke, Square

Overall H x W (in)	Overall Length (in)	24V DC Item No.	120V AC Item No.	Recommended Retaining Angle Item No.
Smoke, Square				
7 3/4 x 8	12	3HG1	3HG6	2TGG5
9 3/4 x 10	12	3HG2	3HG7	2TGG7
15 3/4 x 16	12	3HG3	3HG8	2TGH7
19 3/4 x 18	12	3HG4	3HG9	2TGH8
23 3/4 x 24	12	3HG5	3HG1	2TGH1



Fire/Smoke, Square

Overall H x W (in)	Overall Length (in)	24V DC Item No.	120V AC Item No.	Recommended Retaining Angle Item No.
Fire/Smoke, Square				
7 3/4 x 8	21	3HG3	3HG9	2TGG5
9 3/4 x 10	21	3HG4	3HG1	2TGG7
11 3/4 x 12	16	3HG5	3HG2	2TGG7
15 3/4 x 16	16	3HG6	3HG3	2TGH7
17 3/4 x 18	16	3HG7	3HG4	2TGH8
23 3/4 x 24	16	3HG8	3HG5	2TGH1

*AMCA certified. †Retaining plate included for installation.

Balancing Dampers

- Steel frame with galvanized steel blades
 - Mount vertically or horizontally
- Regulate airflow through a duct to balance system pressures and ensure occupant comfort. **Manual** dampers are designed to regulate airflow, but not intended for use where positive shut-off or automatic control is needed. Feature a manual hand quadrant that can be locked in place. **Remote** offer the same function as manual balancing dampers with the additional ability to control damper remotely with 48C165 at wall plate or diffuser. Include factory-mounted 9V actuator.



For Nominal Duct Dia.	Length	Maximum Pressure	Max. Air Velocity	Brand	Item No.
Manual, Round					
6 in	6 in	4 in wc	3000 fpm	—	61NZ61
8 in	6 1/2 in	1 in wc	2000 fpm	Dayton	2TFX7
10 in	6 1/2 in	1 in wc	2000 fpm	Dayton	2TFX8
12 in	6 1/2 in	1 in wc	2000 fpm	Dayton	2TFX9
14 in	12 in	4 in wc	3000 fpm	—	61NZ60
14 in	6 1/2 in	1 in wc	2000 fpm	Dayton	2TFY2

WARNING: Utilizing any controller other than 48C165 to adjust damper will void damper warranty.

Overall H x W	Overall L	Maximum Pressure	Max. Air Velocity	Brand	Item No.
Remote, Round					
6 in	6 3/4 in	1 in wg	2000 fpm	Dayton	48C159
8 in	6 3/4 in	1 in wg	2000 fpm	Dayton	48C160
10 in	6 3/4 in	1 in wg	2000 fpm	Dayton	48C161
12 in	6 3/4 in	1 in wg	2000 fpm	Dayton	48C162



Remote, Round

Overall H x W	Overall L	Maximum Pressure	Max. Air Velocity	Brand	Item No.
Manual, Square & Rectangular					
5 3/4 in x 5 3/4 in	1 1/2 in	2 in wc	2000 fpm	Dayton	22CV77
7 3/4 in x 7 3/4 in	1 1/2 in	2 in wc	2000 fpm	Dayton	22CV78
7 3/4 in x 5 3/4 in	1 1/2 in	2 in wc	2000 fpm	Dayton	22CV84
9 3/4 in x 9 3/4 in	1 1/2 in	2 in wc	2000 fpm	Dayton	22CV80
9 3/4 in x 7 3/4 in	1 1/2 in	2 in wc	2000 fpm	Dayton	22CV85
9 3/4 in x 5 3/4 in	1 1/2 in	2 in wc	2000 fpm	Dayton	22CV82
11 3/4 in x 11 3/4 in	1 1/2 in	2 in wc	2000 fpm	Dayton	22CV79
11 3/4 in x 5 3/4 in	1 1/2 in	2 in wc	2000 fpm	Dayton	22CV81
11 3/4 in x 7 3/4 in	1 1/2 in	2 in wc	2000 fpm	Dayton	22CV83
11 3/4 in x 9 3/4 in	1 1/2 in	2 in wc	2000 fpm	Dayton	22CV86



Manual, Square

Description	Brand	Item No.
Remote Balancing Accessories		
Quick Control Remote Kit	—	48C165
Actuator Kit	Dayton	48C164
Cable Assembly, 14 ft, Plenum-Rated	Dayton	48C170
Cable Assembly, 50 ft, Plenum-Rated	Dayton	48C171
Cable Coupler Kit	Dayton	48C163
Wall/Ceiling Plate, White	Dayton	48C167

DUCTMATE® Flame Gard®

Duct Access Doors

Provide access to the inside of a duct for cleaning, maintenance, repairs, and feature a seal to help maintain system efficiency. **Curved** allow access to the interior space of a round or spiral duct. **Fire-Rated Flat** allow access to the inside of a rectangular duct used for combustion exhaust or in immediate proximity to open flame. They can contain flames within the duct. **Flat** install into rectangular ducting and have doors that can be completely removed to ease access. **High-Temperature Flat** allow access to the internals of a rectangular duct used for higher-temperature ventilation, such as combustion exhaust or manufacturing ventilation.



Curved 29VJ69



Flat 6EKC1

Door Dim. H X W (in)	Rough Opening H X W (in)	For Duct Dia.	Max. Temp. Rating	Latch Type	Brand	Item No.
Curved Access Doors, 22 ga						
4 x 8	3 1/2 x 7 1/2	5 in to 6 in	200 °F	Knobs	Ductmate	29VJ69
8 x 12	7 3/4 x 11 3/4	10 in to 11 in	200 °F	Knobs	Ductmate	29VJ71
8 x 12	7 3/4 x 11 3/4	12 in to 14 in	200 °F	Knobs	Ductmate	29VJ72
Fire-Rated Flat Access Doors, 16 ga						
10 x 15	7 x 12	—	2,300 °F	Thumbscrews	Flame Gard	6EJA4
15 x 15	12 x 12	—	2,300 °F	Thumbscrews	Flame Gard	6EJA6
Flat Access Doors, 24 ga						
8 x 8	7 x 7	—	175 °F	Double Cam	Ductmate	6EKA9
12 x 12	11 x 11	—	175 °F	Double Cam	Ductmate	6EKC1
24 x 24	23 x 23	—	175 °F	Double Cam	Ductmate	6EKC7
High-Temperature Flat Access Doors, 16 ga						
6 x 10	—	—	2,300 °F	Thumbscrews	Flame Gard	6EJC0
6 x 10	6 x 10	—	2,300 °F	Thumbscrews	Ductmate	6EKD7
8 x 12	—	—	2,300 °F	Thumbscrews	Flame Gard	6EJC1
8 x 12	8 x 12	—	2,300 °F	Thumbscrews	Ductmate	6EKD8