



DYNAMIC RATE FIRE DAMPER
UL555 1 ½ Hour Fire Rating

APPLICATION

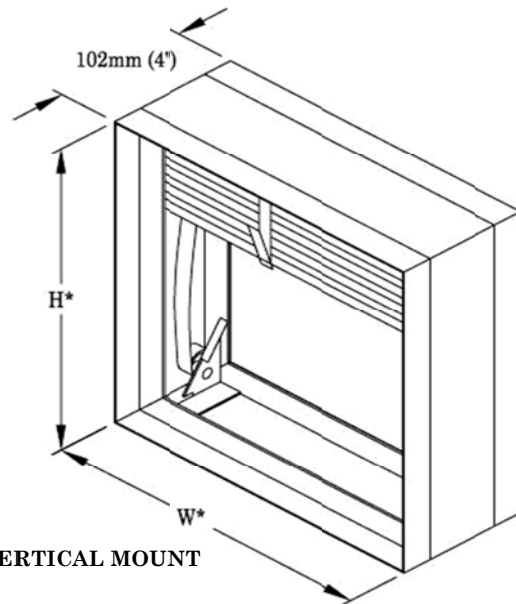
Model DFD-10 is approved for installation in walls with a fire resistance rating of less than 3 hours. This damper installed vertically in dynamic HVAC systems that automatically shut down in the event of fire.

RATINGS

UL555 Fire Resistance Rating: 1 ½ Hour
Dynamic closure rating
Maximum Velocity: 2000 fpm (10.2 m/s)
Maximum Pressure: 4 in. w.g. (1 kPa)

STANDARD CONSTRUCTION

Frame: Roll formed, galvanized steel
Blades: Low profile roll formed, galvanized steel



*These dimensions are furnished approximately ¼”(6mm) undersize.

FEATURES

Stainless steel closure springs
Fusible link (165°F (74°C) standard)
Vertical Mount

INSTALLATION

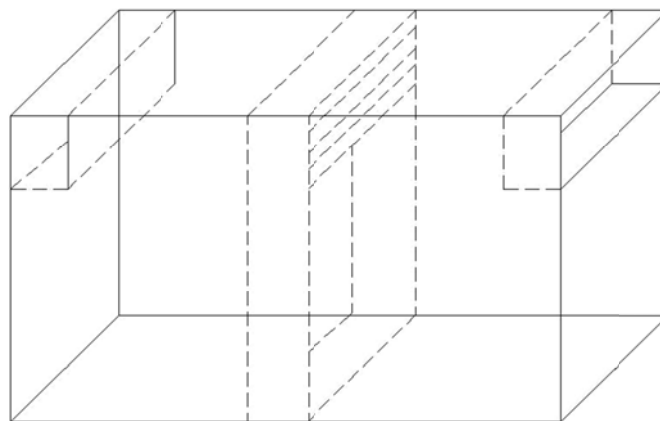
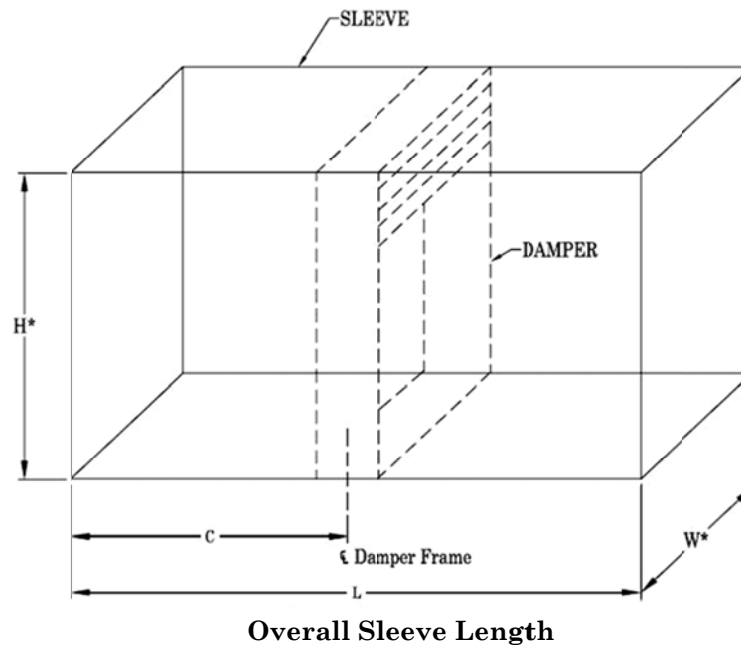
All fire damper installations require the use of sleeves, angles and methods described in IGC Fire Damper Installation Instructions, included with every damper shipment. Sleeves can be field fabricated or factory furnished as a complete damper/sleeve assembly. See Factory Sleeve Option below for details.

OPTIONAL FEATURES

Sealed transitions and sleeves
One piece retaining angles (POC)
Transitions (B, C, CR)

FACTORY SLEEVE OPTION

DFD-150 Fire Dampers are available in factory furnished sleeves. Sleeves are galvanized steel and are available in 10 thru 20 ga. (1mm- 3.5mm) thicknesses and lengths up to 36 in. (914mm). "C" dimension specifies location of damper within the sleeve. Minimum is 4 in. H* (102mm), maximum is "L" less 4 in. (102mm), which allows for mounting angle installation and duct connection at each end of the sleeve. If "C" dimension is not specified, it will be provided as one half of "L" dimension (damper centered in sleeve).



Type B with Sleeve

DFD-10 TYPE A

SIZING DATA

Damper maximum single section size is supplied in one section. If ordered with a factory sleeve, single-section dampers are factory assembled ready for installation. If ordered without a factory sleeve, single-section dampers require field assembly. (See IGC Fire Damper Installation Instructions)

The following chart and illustrations show minimum and maximum damper section size and assembly configurations for single section.

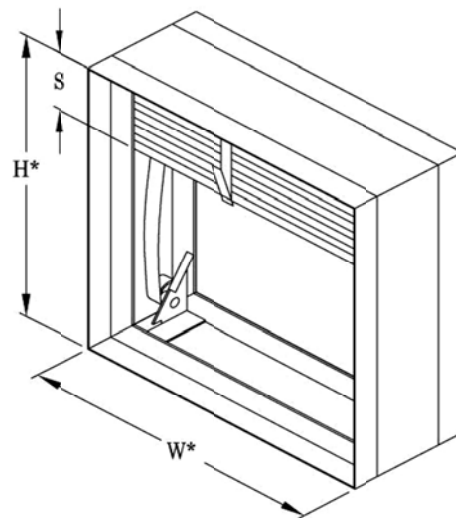
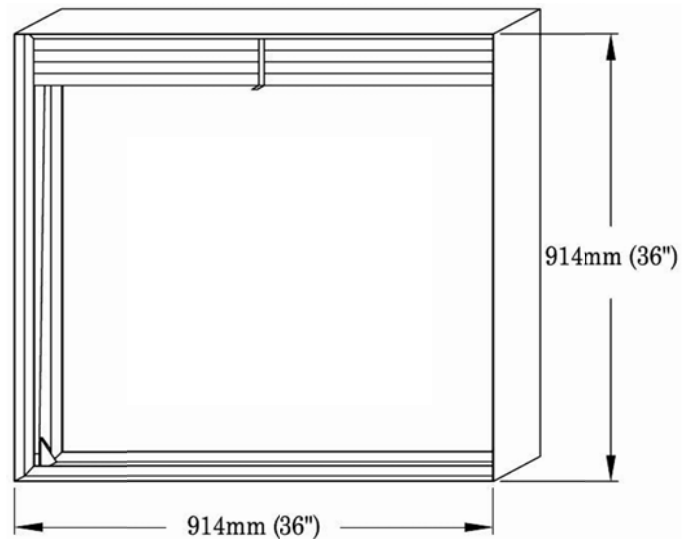
SIZE LIMITATIONS

mm (inches)	Vertical Single Section
Minimum	102 x 102 (4" x 4")
Maximum	914 x 914 (36" x 36")

Blade Stack Dimensions

H*	S
102 (4")	20
127 (5")	20
152 (6")	23
178 (7")	28
203 (8")	30
229 (9")	33
254 (10")	33
279 (11")	36
305 (12")	41
330 (13")	43
356 (14")	46
381 (15")	46
406 (16")	51
432 (17")	53
457 (18")	56
483 (19")	58
508 (20")	61
533 (21")	66
559 (22")	66
584 (23")	69
610 (24")	74
635 (25")	79
660 (26")	81
686 (27")	81
711 (28")	84
737 (29")	86
762 (30")	91
787 (31")	94
813 (32")	94
838 (33")	99
864 (34")	99
889 (35")	104
914 (36")	107

Maximum Single Section



*These dimensions are furnished approximately ¼"(6mm) undersize.

DFD-10 TYPE B

SIZING DATA

Damper maximum single section size is supplied in one section. If ordered with a factory sleeve, single-section dampers are factory assembled ready for installation. If ordered without a factory sleeve, single-section dampers require field assembly. (See IGC Fire Damper Installation Instructions)

The following chart and illustrations show minimum and maximum damper section size and assembly configurations for single section.

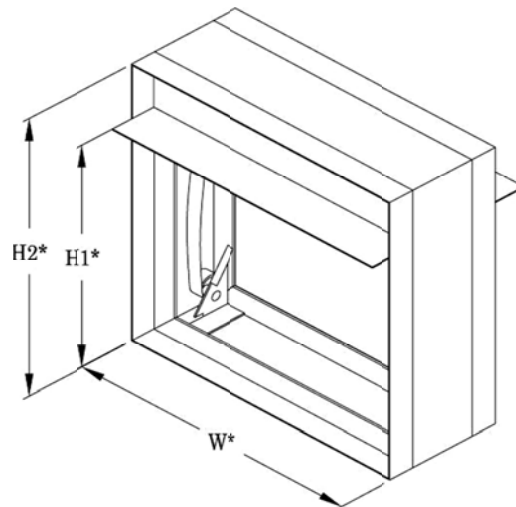
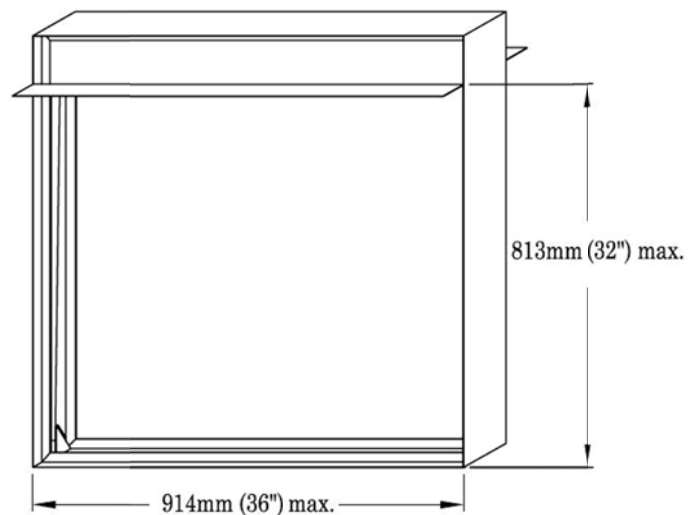
SIZE LIMITATIONS (B Transition)

mm (inches)	Vertical Single Section
Minimum	102 x 102 (4" x 4")
Maximum	914 x 813 (36" x 32")

Blade Stack Dimensions (Nominal)

H1*	H2*
102 (4")	152 (6")
127 (5")	178 (7")
152 (6")	203 (8")
178 (7")	229 (9")
203 (8")	254 (10")
229 (9")	279 (11")
254 (10")	305 (12")
279 (11")	330 (13")
305 (12")	356 (14")
330 (13")	381 (15")
356 (14")	406 (16")
381 (15")	457 (18")
406 (16")	483 (19")
432 (17")	508 (20")
457 (18")	533 (21")
483 (19")	559 (22")
508 (20")	584 (23")
533 (21")	610 (24")
559 (22")	660 (26")
584 (23")	686 (27")
610 (24")	711 (28")
635 (25")	737 (29")
660 (26")	762 (30")
686 (27")	787 (31")
711 (28")	813 (32")
737 (29")	838 (33")
762 (30")	864 (34")
787 (31")	889 (35")
813 (32")	914 (36")

Maximum Single Section



*These dimensions are furnished approximately 1/4" (6mm) undersize

DFD-10 TYPE C & CR

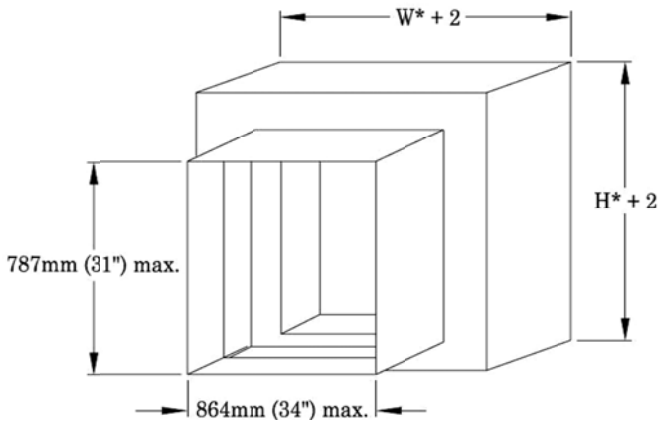
SIZING DATA

Damper maximum single section size is supplied in one section. If ordered with a factory sleeve, single-section dampers are factory assembled ready for installation. If ordered without a factory sleeve, single-section dampers require field assembly. (See IGC Fire Damper Installation Instructions)

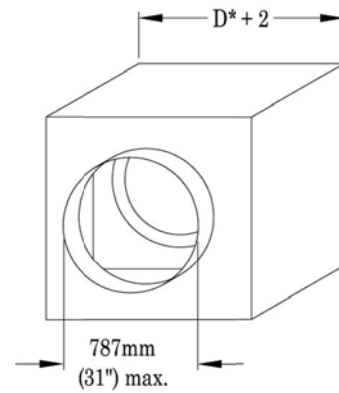
The following chart and illustrations show minimum and maximum damper section size and assembly configurations for single section.

SIZE LIMITATIONS

mm (inches)	Type C		Type CR	
	Minimum	Maximum	Minimum	Maximum
Vertical Single Section	76 x 76 (3" x 3")	864 x 787 (34" x 31")	76 (3")	787 (31")



TYPE C



TYPE CR

