

Application

The FD-2D-B fire damper employs curtain style blades for point-of-origin control of fire in static and dynamic HVAC systems. The FD-2D-B is qualified to 4,000 ft/min (20.3 m/s) and 4 in.wg. (1.0 kPa) and may be installed in vertical walls or partitions with fire resistance ratings up to 2 hours.

Standard Construction

Frame: 22 gauge (0.85) galvanized steel.

Blades: 24 gauge (0.7) galvanized steel – curtain style.

Fire Closure Device: Fusible link.

Fire Closure Temperature: 165°F (75°C).

Minimum Size: 6" × 4" (152 × 102)

Maximum Size: Single section: 36" × 40" (914 × 1016)
 Multiple section: 72" × 29" (1829 × 737)
 36" × 65" (914 × 1651)

Options

Velocity Rating: 2000 fpm 4000 fpm

Factory installed sleeve:
 Gauge: 20 (1.0) 18 (1.3) 16 (1.6) 14 (2.0) 10 (3.5)
 Length: 12" (305) 16" (406) 24" (610) Other ____

Transitions:
 Round Oval
 Duct connections (sleeve required):
 1" (25) S-clip DM-25 DM-35
 WARD

Retaining angle systems:
 Gauge: 20 (1.0) 16 (1.6)
 Picture frame: SSPF (single-side) DSPF (2-side)
 Individual angle sets: SS (single-side) DS (2-side)

Alternate fire closure temperature.
 212°F (100°C)

Duct access door factory mounted in common sleeve.

Generic mullion for oversized masonry or concrete openings.

Ratings

UL 555 Fire Resistance Rating: 1½ hour (vertical)

UL HNLJ.V-5: Ventilation Duct Assemblies

Maximum Dynamic Closure Velocity: 4,000 fpm (20.3 m/s)
 2,000 fpm (10.2 m/s) Multiple Section

Maximum UL555S Rated Pressure: 4 in.wg. (1.0 kPa)

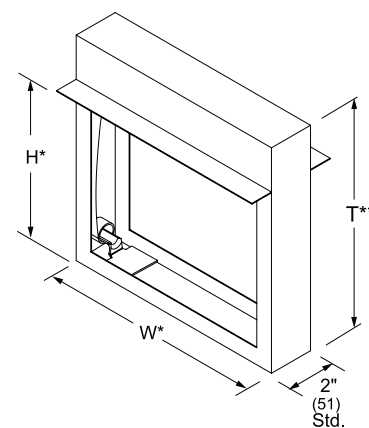
Listings

UL 555 listing: R14981

CSFM listing: 3225-1404:101

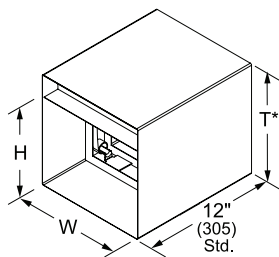
Meets NFPA Standards: 90A, 92A, 92B and 101

Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC



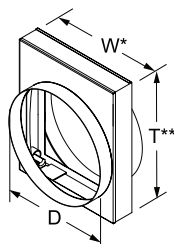
Model **FD-2D-B**
(standard)

*Damper dimensions furnished approximately 1/4" (6) undersize.

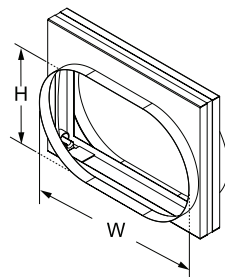


Sleeve Type B (optional)

†Damper dimensions furnished approximately 1/8" (3) undersize.



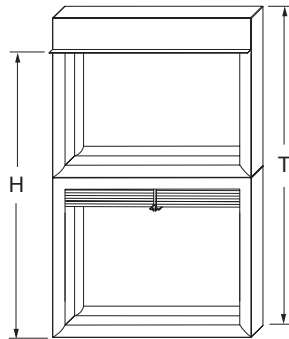
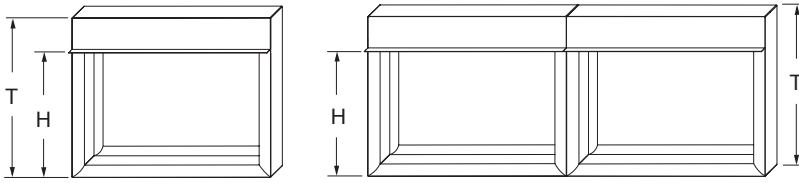
Type BR (optional)
 Round duct transitions are standard with D=W. (available with D<W)



Type BO (optional)
 Oval duct transitions are standard with W equal to damper width dimension. (available with W smaller than damper width)

**See table on next page for 'T' dimension

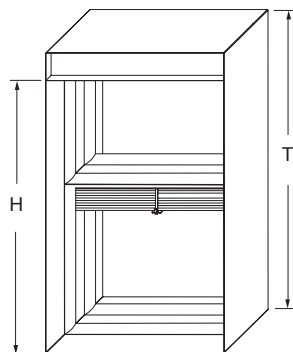
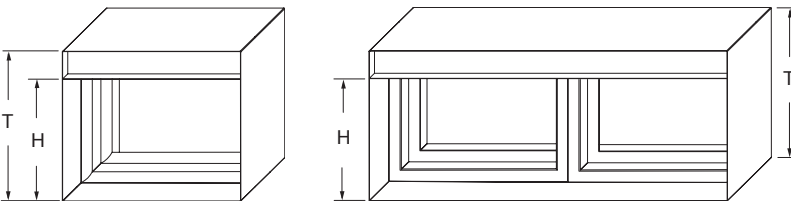
Damper Height Dimensional Data



Model **FD-2D-B**
(standard)

Nominal Duct Height 'H'	Damper Height 'T'
4" (102)	6" (152)
5" (127)	7" (178)
6" (152)	8" (203)
7" (178)	9" (229)
8" (203)	10" (254)
9" (229)	11" (279)
10" (254)	12" (305)
11" (279)	14" (356)
12" (305)	15" (381)
13" (330)	16" (406)
14" (356)	17" (432)
15" (381)	19" (483)
16" (406)	20" (508)
17" (432)	21" (533)
18" (457)	22" (559)
19" (483)	23" (584)
20" (508)	25" (635)
21" (533)	26" (660)
22" (559)	27" (686)
23" (584)	28" (711)
24" (610)	29" (737)
25" (635)	31" (787)
26" (660)	32" (813)
27" (686)	33" (838)
28" (711)	34" (864)
29" (737)	36" (914)
30" (762)	37" (940)
31" (787)	38" (965)
32" (813)	39" (991)
33" (838)	40" (1016)
34" (864)	41" (1041)

Nominal Duct Height 'H'	Damper Height 'T'
35" (889)	42" (1067)
36" (914)	43" (1092)
37" (940)	45" (1143)
38" (965)	46" (1168)
39" (991)	47" (1194)
40" (1016)	48" (1219)
41" (1041)	49" (1245)
42" (1067)	50" (1270)
43" (1092)	51" (1295)
44" (1118)	52" (1321)
45" (1143)	53" (1346)
46" (1168)	54" (1372)
47" (1194)	55" (1397)
48" (1219)	54" (1372)
49" (1245)	55" (1397)
50" (1270)	56" (1422)
51" (1295)	57" (1448)
52" (1321)	58" (1473)
53" (1346)	59" (1499)
54" (1372)	60" (1524)
55" (1397)	61" (1549)
56" (1422)	62" (1575)
57" (1448)	63" (1600)
58" (1473)	64" (1626)
59" (1499)	65" (1651)
60" (1524)	67" (1702)
61" (1549)	68" (1727)
62" (1575)	69" (1753)
63" (1600)	70" (1778)
64" (1626)	71" (1803)
65" (1651)	72" (1829)



Sleeve Style S
(optional)