

## Application

The VFD-10D-C fire damper employs out of the air stream frame and curtain style blades for point-of-origin control of fire in static and dynamic HVAC systems. The VFD-10D-C is qualified to 2,000 ft/min (10.2 m/s) and 4 in.wg. (1.0 kPa) and may be installed in vertical walls or partitions, or horizontally in floors or assemblies with fire resistance ratings up to 2 hours.

## Standard Construction

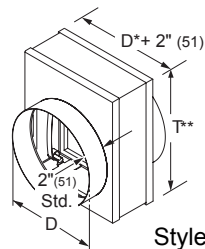
- Frame:** 22 gauge (0.85) galvanized steel.
- Blades:** 24 gauge (0.7) galvanized steel – curtain style.
- Fire Closure Device:** Fusible link.
- Fire Closure Temperature:** 165°F (75°C).
- Minimum Size:** 4" × 3" (102 × 76)
- Maximum Size:** Vertical mount: 34" × 32" (864 × 813)  
 Horizontal mount: 22" × 21" (559 × 533)

## Options

- Factory installed sleeve:
  - Integral (Includes high pressure/low leakage taped joints).
  - 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  1½" (38) S-clip  DM-25  DM-35
- 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)  286°F (141°C)
- Duct access door factory mounted in common sleeve.
- Generic mullion for oversized masonry or concrete openings.
- Type-304 stainless steel construction.

### Round Transitions

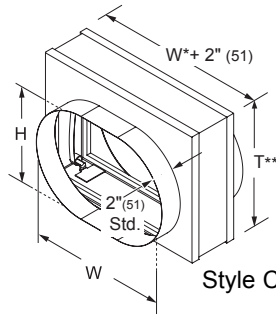
(Standard with D=W=H. Available with D<W and H)



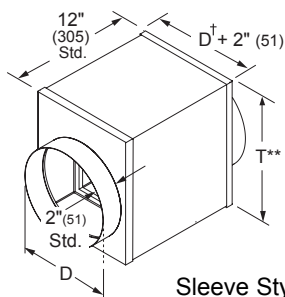
Style CR (optional)

### Oval Transitions

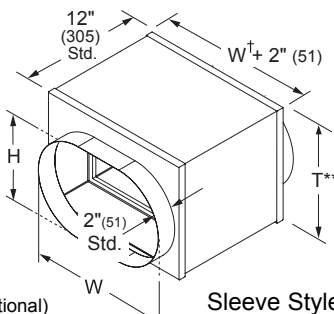
(Standard with W and H equal to damper width and height dimensions. Available with W and H smaller than damper width and height)



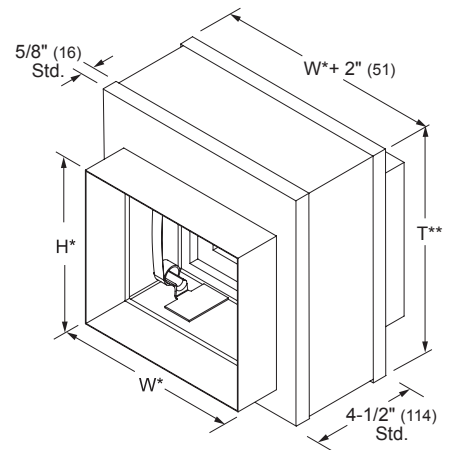
Style CO (optional)



Sleeve Style CR (optional)



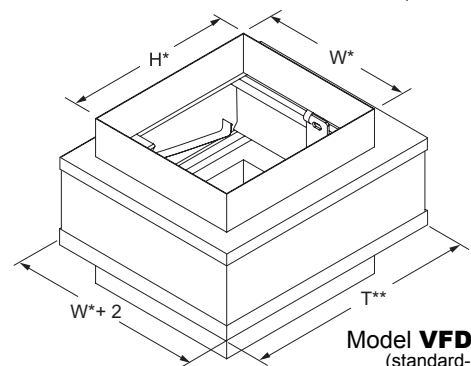
Sleeve Style CO (optional)



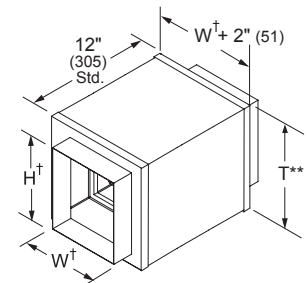
Model **VFD-10D-C**  
(standard-vertical)

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

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



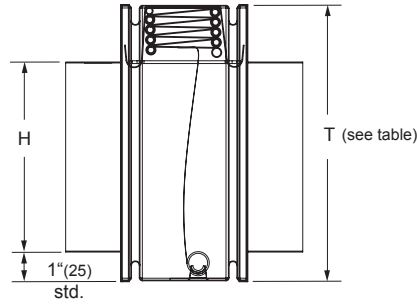
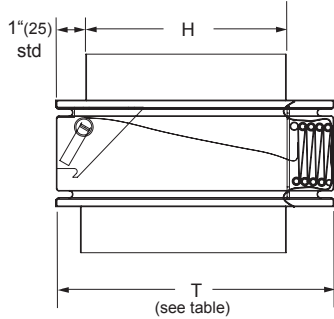
Model **VFD-10D-C**  
(standard-horizontal)



Sleeve Style C (optional)



# Damper Height Dimensional Data



Nominal Duct Height 'H'	Damper Height 'T'
3" (76)	6" (152)
4" (102)	7" (178)
5" (127)	8" (203)
6" (152)	9" (229)
7" (178)	10" (254)
8" (203)	11" (279)
9" (229)	12" (305)
10" (254)	13" (330)
11" (279)	14" (356)
12" (305)	15" (381)
13" (330)	16" (406)
14" (356)	17" (432)
15" (381)	18" (457)
16" (406)	19" (483)
17" (432)	20" (508)
18" (457)	21" (533)
19" (483)	22" (559)
20" (508)	23" (584)
21" (533)	24" (610)
22" (559)	25" (635)
23" (584)	26" (660)
24" (610)	28" (686)
25" (635)	29" (711)
26" (660)	30" (737)
27" (686)	31" (762)
28" (711)	32" (787)
29" (737)	33" (813)
30" (762)	34" (838)
31" (787)	35" (864)
32" (813)	36" (889)

Vertical Dampers Only